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OM protein - protein search, using sw model

Run on: February 20, 2004, 13:32:18 / Search time 29.3726 Seconds
(without alignments)
1078.927 Million cell updates/sec

Title: US-09-913-955A-1

Perfect score: 3958

Sequence: 1 MEATRGSSVERGKXKXNRGTR.....AFNCPNPTNKGMDSCRLW 749

Scoring table:

BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Issued Patents, AA:*

1: /cgn2_6/ptodata/1/1aa/5A_COMB.pep:*

2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep:*

3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep:*

4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep:*

5: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep:*

6: /cgn2_6/ptodata/1/1aa/backfilest.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1373	34.7	742	4	US-09-704-611-2
2	1368.5	34.6	765	4	US-09-704-611-1
3	1257	31.8	703	3	US-08-646-273-25
4	1257	31.8	753	3	US-08-646-273-36
5	1248.5	31.5	758	1	US-08-289-112-2
6	1241.5	31.4	708	3	US-08-646-273-23
7	1241.5	31.4	754	3	US-08-646-273-30
8	1222.5	30.9	765	4	US-09-819-989-4
9	1221	30.8	811	4	US-09-819-989-2
10	1221	30.8	883	4	US-09-657-373-4
11	1184	29.9	787	1	US-08-574-763-2
12	983.5	24.8	775	3	US-09-305-640-2
13	963.5	24.3	567	3	US-08-646-273-19
14	790	20.0	690	4	US-09-328-352-5182
15	527.5	12.3	189	3	US-08-646-273-14
16	501	12.7	590	4	US-09-107-532A-4682
17	470.5	11.9	632	4	US-09-634-238-249
18	246	6.2	181	3	US-09-305-640-4
19	119	3.0	1016	4	US-09-625-972-24
20	116	2.9	725	2	US-08-813-940-25
21	114.5	2.9	990	2	US-08-393-625-20
22	114.5	2.9	990	2	US-08-466-961A-20
23	114.5	2.9	990	2	US-08-466-193B-15
24	112	2.8	722	4	US-09-253-991A-17407
25	111.5	2.8	1056	4	US-09-394-272-1
26	108	2.7	681	2	US-08-655-345-4
27	108	2.7	681	3	US-09-183-275-4

28	108	2.7	681	5	PCT-US96-08407-4	Sequence 4, Appl
29	108	2.7	698	4	US-09-727-169-4	Sequence 4, Appl
30	108	2.7	698	4	US-09-579-766A-4	Sequence 4, Appl
31	108	2.7	698	4	US-09-726-968-4	Sequence 4, Appl
32	108	2.7	807	2	US-08-655-345-2	Sequence 2, Appl
33	108	2.7	807	3	US-09-183-275-2	Sequence 2, Appl
34	108	2.7	807	5	PCT-US96-08407-2	Sequence 2, Appl
35	108	2.7	824	4	US-09-727-169-2	Sequence 2, Appl
36	108	2.7	824	4	US-09-579-766A-2	Sequence 2, Appl
37	108	2.7	824	4	US-09-726-968-2	Sequence 2, Appl
38	106.5	2.7	803	1	US-08-062-368-2	Sequence 2, Appl
39	106	2.7	984	4	US-09-328-352-6926	Sequence 6926, Ap
40	105.5	2.7	548	4	US-09-601-091-2	Sequence 2, Appl
41	105	2.7	479	1	US-08-484-105-10	Sequence 10, Appl
42	105	2.7	479	1	US-08-484-106-10	Sequence 10, Appl
43	104.5	2.6	2662	4	US-09-595-684B-31	Sequence 31, Appl
44	103.5	2.6	548	4	US-09-601-091-4	Sequence 4, Appl
45	103.5	2.6	548	4	US-09-398-395A-52	Sequence 52, Appl

ALIGNMENTS

RESULT 1
US-09-704-611-2
Sequence 2, Application US/09704611
Patent No. 6548284
GENERAL INFORMATION:
APPLICANT: JCR Pharmaceuticals Co., Ltd.
TITLE OF INVENTION: Membrane-bound Metalloprotease and Soluble Secreted Form Thereof
FILE REFERENCE: GP30
CURRENT APPLICATION NUMBER: US/09/704,611
CURRENT FILING DATE: 2000-11-03
NUMBER OF SEQ ID NOS: 9
SEQ ID NO 2
LENGTH: 742
TYPE: PRT
ORGANISM: Mus musculus
US-09-704-611-2

Query Match 34.7%; Score 1373; DB 4; Length 742;

Best Local Similarity 38.7%; Pred. No. 2.8e-126;
Matches 290; Conservative 149; Mismatches 267; Indels 44; Gaps 17;

QY	18	GTIALVVFVGGTLVLTGLTFLVSGQLSLQAKQECLEKAAALISKNTSVDC	77
DB	19	GLMVLTLTLGLAVTLGV---FYSIALRDSISKSDICTPSCVIAARILENDOSRNC	75
QY	78	DNFFRACDGTSSNPNIPEDMSYGYFWLRHNVDLKLELEKTSRRDTEATOKAKI	137
DB	76	ENFYQACGQWLRHHVLPETNSRYSVFDLRDELVLTKGVLEDTSQHR--PAVEKAKT	133
QY	138	LYSSCNAKEIKADAPLHLIRSPFRWPYLESNIGEGVWSER--KPELLQTLATF	194
DB	134	LVRSCNNGVIERKSEPLSLVTK--MVGGMVALDK-----MNETMGLKWELEQLAVL	186
QY	195	RQYSNSVTRILVSPDDKASNEHLKDLQATLSLAVERDYDNTSTKASYDALYKFW	254
DB	187	NSQFNRRVLIIDFIFWMDNDSRRHYLYIDPFLGMSRETYQEEDNNR--VKAPPEFT	245
QY	255	DTFVLT-----LGANSRAHDMKSYLRLEIKIAIMIPHERTS--EAMYNKNTSELGA	307
DB	246	SVATMLRKHQNTLSKESAMREMAVLEHETLANATVQEGRHVTLVYHMDMELOE	305
QY	308	M--IPQFDWLYGYKY--IDRLYPHLKDISPSENVVVPQYFEDLFRILGSRKTI	362
DB	306	RFLIKGFNWTLLFIONLSEVVELF-----PDERVVYGG.PYLENLEDDIIDSARFM	358
QY	363	ANTLVWRMYRSPNLSRRFQYRMLEFSRVIGTTLTPQMKCVNFISALPYVGGKAF	422
DB	359	QNTLVKRLVLDRIQSLQKFAKARDYRKALGTTVEVRKMECTSYNSMNSAVGSIX	418
QY	423	VDVYFQEDKEMMEELVEGVRAAFIDMLEKENEMMDAGTKRKAKKAAVLAQVGPFT	482

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Db      : 419 IKAFSKDSKSTYRELIEKRSVFNVDLBN- WMBESKKAQOEKAMIRGIGPDI 477
QY      : 483 M--NDTHVEDLKAIFSEADYFQNVLTQRTKYLQSDPFWLKAQVPTWFTPTTVAE 540
Db      : 478 LBNNGHGLDEEYSSLTFEYEDLYFENGIONKNNQKSLKKLREKQONIMIGAAVVAE 537
QY      : 541 YSASTQIRPAGELQPFPMGTEYPRSLSYGAIIGVIGHEFTHGPDNGKXND 600
Db      : 538 YSNRQIVPAGILQPPF-SKDQPSLFGSIGVIGHEITHGPDNGKXND 596
QY      : 601 PWSSTSEKFKETKCMINQYNSNYWKA-GLNVKQRTLGENIADNGQLBEAFAYK 659
Db      : 597 DWSNFSARHFOOQSCMIYQGNFSEWELADNONVNGFSLGENIADNGVQOAYAYR 656
QY      : 660 WINDRQGLEPPLPGTFTNNOLPFLSYAVRCSNRPPEARQVOIGASHPORVNG 719
Db      : 657 WLD--GGKQRLPGLNTYALPFLNTAQWCGSYRBEFAVQSIKTVHSPKTRVIG 713
QY      : 720 AISNBEFOKAFNCPNSTNNGMDSCLW 749
Db      : 714 SLONLPGFSEAFHCPRGSPWH-PMKRCRIW 742

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RESULT 2

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US-09-704-611-1
; Sequence 1, Application US/09704611
; Patent No. 6548284
; GENERAL INFORMATION:
; APPLICANT: JCR Pharmaceuticals Co., Ltd.
; TITLE OF INVENTION: Membrane-bound Metalloprotease and Soluble Secreted Form Thereof
; FILE REFERENCE: GP30
; CURRENT APPLICATION NUMBER: US/09/704,611
; CURRENT FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 9
; SEQ ID NO 1
; LENGTH: 765
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-704-611-1

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Query Match      34.6%; Score 1368.5; DB 4; Length 765;
Best Local Similarity 38.7%; Pred. No. 8.3e-126;
Matches 294; Conservative 148; Mismatches 267; Indels 51; Gaps 18;

QY      : 18 GTTALVVF--VGGTIVLTILF-----LVSGLLSLQAKQCYCLKBECEAAAIL 67
Db      : 29 GAVTVLGVFYSIGQPLTSLHFSWDEKTVKRLRDSLSKSDICTPSCVIAARIL 88
QY      : 68 SKYVLVPCDNFPRACDGMISNPIPEDMPSYGVYVWLRHNVDLKLEKLSRRR 127
Db      : 89 ENNDQSNPCENFYQACGWLRRHVLPETNSRYFIDLDELAVILKGVLEDSTQHR 148
QY      : 128 DTEALQAKLLYSSCMNEKAIKADAKPLHLHRSFPFVPLESISIGEGWSE--X 184
Db      : 149 --PVEKAKLLYSSCMQSVIEKRDSEPLISVLK-MVGGPVALDK-----MNETMGK 199
QY      : 185 FSLQTLATPRGOYSNVFRLYVSPDKASNEHILKLDQATLSLAVREDYLDNSTEAS 244
Db      : 200 WELEKQALVANSQNRRLVLDLFIWDDQNSRHVYIDPQLGMSREYVQEDNNHK- 258
QY      : 245 YRDALYKFWVDVAVL-----LGANSRAHDKSVTLRLKIAELMIEHKRTS-EANY 297
Db      : 259 VRKAYPEFMTSVATMKRDNLSKESAMVRENAEVLLETHLANATVQEKRHDTALY 318
QY      : 298 NKXNISLSAM--IPQDMVGYIKV--IDTLYLPHLKDISSSENVVVRVPOYFDLFR 352
Db      : 319 HRMDLWELQERFGLKGNWTLFIQNVLSVVELF-----PDEEVVYGAIPYLENLD 371
QY      : 353 ILGSEKKTITANTLYVMYVSRTPNLSRFQYKMLESRVIOGTTTLLPQMKCVAFIS 412
Db      : 372 IIDSYSARTQNTLYWLVLDRIQSLQRFKEARVDYRKALYGTIVVEVVRWCASVYNS 431

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QY      : 413 ALPVVGMFVDYVFOEDKXMMELVGYRMAFIDMLEKNEEMDAGTRKAKERAV 472
Db      : 432 MNSAVOSLYIKAFSDSKSTYRELIEKRSVFNVDLBN- WMBESKKAQOEKAMIR 490
QY      : 473 LAKVPEFIM--NDTHVEDLKAIFSEADYFQNVLTQRTKYLQSDPFWLKAQVPTW 530
Db      : 491 REQIGDPDYILEDNNKHLDEEYSSLTFEYEDLYFENGIONKNNQKSLKKLREKQON 550
QY      : 531 FTFNTNAPFASASTNQIRPAGELQPFPMGTEYPRSLSYGAIIGVIGHEFTHGPDNG 590
Db      : 551 IIGAAVNAKFSRPNQIVPAGILQPPF-SKDQPSLFGSIGVIGHEITHGPDNG 609
QY      : 591 RYKDNQNLDPWSTSESEKFKETKCMINQYNSNYWKA-GLNVKQRTLGENIADNGG 649
Db      : 610 RNFENGNMLDWNSFARHFOOQSCMIYQGNFSEWELADNONVNGFSLGENIADNGG 669
QY      : 650 LREAFRAYKWINDRQGLEPPLPGTFTNNOLPFLSYAVRCSNRPPEARQVOIGA 709
Db      : 670 VRQAKVYLRWLD--GGKQRLPGLNTYALPFLNTAQWCGSYRBEFAVQSIKTV 726
QY      : 710 HSPPOFRVNGAISNBEFOKAFNCPNSTNNGMDSCLW 749
Db      : 727 HSPKRYVLSGLQVLPGFSEAFHCPRGSPWH-PMKRCRIW 765

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RESULT 3

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US-08-646-273-25
; Sequence 25, Application US/08646273
; Patent No. 606502
; GENERAL INFORMATION:
; APPLICANT: Kroeger, Burkhard, Seuburger, Harald, Meyer, Thomas, Schmidt,
; Applicant: Martin, Jacob, Elard, Ofter, Rainer, Subkowski, Thomas, Hiltz,
; TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESS: Keil & Weinlauf
; STREET: 1101 Connecticut Avenue
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.4 MB storage
; COMPUTER: IBM AT-compatible, 80486 processor
; OPERATING SYSTEM: MS-DOS version 6.0
; SOFTWARE: WordPerfect version 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/646,273
; FILING DATE: 16-NOV-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP94/03706
; FILING DATE: 11-NOV-1994
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 703 amino acids
; STRANDEDNESS: single
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-646-273-25

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Query Match      31.8%; Score 1257; DB 3; Length 703;
Best Local Similarity 37.6%; Pred. No. 7.4e-115;
Matches 281; Conservative 126; Mismatches 276; Indels 64; Gaps 21;

QY      : 21 LALVFGVGLTILGTLIFVSGLLSLQAKQCYCLKBECEAAAILSKYVLVPCDNF 80
Db      : 3 VVLVVL-----LAAGLVACIALAGIQYGRSPSVCLSAQCVSVSSIISSMDPVDPCHE 58
QY      : 81 FRACDGMISNPIPEDMPSYGVYVWLRHNVDLKLEKLSRRDTEALQAKLLYS 140
Db      : 59 FSYACGGIKANPVPDGHSGWGTFSNLMENQALIKHLNSTA--SVSEAKRAQVYIR 116

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0Y 141 GOMNEKALIEKADAKXLLHLIRNSPFRWPLIESNIGEGWSEKSEKSLQTLAFPRQYSN 200
0Y 117 AOMNETRIEELRAKPELIELIERLG-GMN-----TGMKONFO-DLQVVTATYRT 166
0Y 201 SVFIRLYVSPDDKASNEHILKLDQATLSAVREDYLDNSTEAKSYSDALYKFNVDYAVLL 260
0Y 167 SPFFVYVYASADSKNSNSNIYQDQSGLGPSRDYLT-NKTENEKVTGLYNTVWQJGKLL 225
0Y 261 GANSRA-EHDKSVYLRLEIKLAEIMI PHENRSEAM-NKNMISLSAMIPQDMGYI 318
0Y 226 GCGDEBARPQMOQILDFETALANTITPOKRDESLIYKVAELQTLAPINLWPF- 284
0Y 319 KKVIDTRYPHKDISPSENVYVRYQYKDFRILIGSERKKTIANLYVMWYSRI PNL 378
0Y 285 --LNTIFYP--VEINESPIVYDEKYLEQISTLINTDRCLINMYIMNLVRKTSFLL 339
0Y 379 SRRPQYRMLFERSVIGCT-TTLLPQWDKVNFIESLLPVYGMFVDYVFOEDKEMEE 437
0Y 340 DQRFODADEKFEWYGYTKTCLPRWKFVSDTENNLGALGMPYKATFAEDSKSIATE 399
0Y 438 LVEGYRMAFIDMLEKENEMMDAGTKAKAKARAVALAKYEPFIM-----NDTRY 488
0Y 400 IILEIKKAFBEEL-STLKMDDETRKSAEKXDAIINMIGYPIFINDPKELDKVFNDYTA 458
0Y 489 NEDLKATFSEADYIGNVLIQTRKYLQSDPFM-----IRKAVPKTEWTFNPPTVNAFIS 542
0Y 459 VPDL-----YENAMRF-----FVFSWRVTADOLRKANRQWMSWTPPMVAVYS 503
0Y 543 ASTNQIRFAPAGELQKPFWGTGYPRSLSYGALGVIYGHFTHGPDNNNGRYDNGNLDPM 602
0Y 504 PTKNEIVPAGILQAPFYTRSS-PKALNCGIGVAVGHLLTHAFDQSGHEYDQGNLRPM 562
0Y 603 WSTEEKXFKETKCMINQSYNTYWKAGLNVKGTTLGENTLADNGLEBAFPAFYKWTN 662
0Y 563 WKNSSVZAFKROTECMVEQYSNY--SVNBPVNGRTILENIALDNGLRAAYAYQNVW- 619
0Y 663 DRQGLEBPLLEGITFTNNQLPFLSYAHYRCNSYREARAEVOIQCAHSPPOPRVNGAIS 722
0Y 620 -KKNABHS-LPTLGLTNNQLPFLGPAQWCSTRTESHGELITPHSPSRIRVIGSL 677
0Y 723 NSEEPQKAFNCPNSTMNGMDSRLM 749
0Y 678 NSKEPSEHFRCPGSPMN-PPHKCEWV 703

RESULT 4
US-08-646-273-36
: Sequence 36, Application US/08646273
: Patent No. 6066502
: GENERAL INFORMATION:
: APPLICANT: Kroeger, Burkhard, Seulberger, Harald, Meyer, Thomas, Schmidt,
: APPLICANT: Martin, Jacob, Elard, Otfar, Rainer, Subkowski, Thomas, Hilten, Heinz
: TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).
: NUMBER OF SEQUENCES: 36
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Krell & Weinkauff
: STREET: 1101 Connecticut Avenue
: CITY: Washington
: STATE: D.C.
: COUNTRY: U.S.A.
: ZIP: 20036
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage
: COMPUTER: IBM AT-compatible, 80486 processor
: OPERATING SYSTEM: MS-DOS version 6.0
: SOFTWARE: Wordperfect version 5.1
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/646,273
: FILING DATE: 16-NOV-1994
: CLASSIFICATION: 435
: PRIOR APPLICATION NUMBER: PCT/EP94/03706

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; FILING DATE: 11-NOV-1994
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 753 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-646-273-36

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Query March 31.84; Score 1257; DB 3; Length 753;
Best Local Similarity 37.64; Pred. No. 8.3e-115;
Matches 281; Conservative 126; Mismatches 276; Indels 64; Gaps 21.

QY 21 IALVYVGGTLVLTITITFLVYSGLLSLQAKQCYCKECIEEAAALISKVALSYDPCNF 80
Db 53 VVLVYL-----LAAGLVACLALGIQYCRSPSYCVLSKCAVSTSLSSMDPTVDCDF 108
QY 81 PRFACDGMISNNIPEDMPSGYVPMLRHVNDLKLKELLESISRRTDAIQAKILYS 140
Db 109 PSYACGMIMKAPDPDGHSRWGTSTNMEHQALIKLLNLSLT--SVSEARRAQAYYR 166
QY 141 SCNMEKAIKADAPYALHLITLHSEPFMPVLESNIGPEGWSEKRSFSLQLTATRGQYSN 200
Db 167 ACMETIEIEIRAPGLMEILIRLG-GNNI-----TGPAKDNFQ--DTIQVTAHRT 216
QY 201 SVFIRLYVSPDDKASNHILKLDQATLSLAVREDYLDNSTEAKSYRDALYFMDVAVL 260
Db 217 SPFSYVYVADSKNSNNGVIGDPSGGLPERSDYLL-NKTENKVLNGYLVVMVLGKLL 275
QY 261 GANSRA-EHDMKVLLEIKLAIIMI.PHEHRTSEAM-YNNQNTSELSAMIPQDMLGYI 318
Db 276 GGGDEAIRPQQOILPFTALANTITPQEGRDEELIYEHVYTAELQTLPAINMLPF- 334
QY 319 KKVLDITLYPHLAKDISPENVVVVPQYFKDLFLGSEKKTITANYLVWMYVSRILENL 378
Db 335 ---LNTLFYF--VAINSEPIVVDKYLEBQISTLINWTRCLNNWIMVNLVKTSSFL 389
QY 379 SRPQYMWLESRYIQGT-ITLLPQMDKCNFISALPYVVGKPVVDYFQEDKEMEE 437
Db 390 DQRFQDDEKEMVWYGTCKTCLPRMKECVSDTENNGFALGPMFVATFAEDSKSITE 449
QY 438 LVEVRAVAFIDMLEKEMNDAGTKRAKEKARAVLAKVGEPIIM-----NETHV 488
Db 450 ITLEIKAFESL-STLKMDSETRKAKKADAIYNNIGVPIINIMPKELDKYFNDTA 508
QY 489 NEDIKALFESBAYGNVLQTRKYLQASDPFW-----LRKAVKTEMTNPPTVNAFS 542
Db 509 VPDL-----YFENAMRF-----FNFSWRVTLADQLRAKPRDQMSWTPPVNAYS 553
QY 543 ASTMQIIFPAGELQKPFMGTEYPRSLSYALIGYVGHFTHGGDDNNGKDKDNGNLDPM 602
Db 554 PTKEHIVFPGILQAPPTRSS--PKALNFGSIGVVGHELTHAFDDQREITDKGNLRPW 612
QY 603 WSTSEBKEFKETKCMINQYSNTYMKKAGLVNKGKRTLGENTADNGGLREAFRAYRKVIN 662
Db 613 WKNSVFAFRQTECWVEQYSNY--SYNGEPVNRHRLTGENTADNGGLKAYRAYVQMWV- 669
QY 663 DRKQGLSEPLLPGITTFNNQLPFLSYAHVCNSTRPEAAHQVOIGAHSPQFRVNGAIS 722
Db 670 -KKGGAHRS-LPTLTGLTNQLFLGFGAQWCVSVTPSSHGLITDPHSPSRFVIGSL 727
QY 723 NSEEFQAFNCPNSTNNRGDSCRLN 749
Db 728 NSKEFSEHFRCPQSPSPMN-PPHCEVM 753

RESULT 5
US-08-289-112-2
; Sequence 2, Application US/08289112
; Patent No. 568640
; GENERAL INFORMATION:
; APPLICANT: Yanagisawa, Masaaki
; TITLE OF INVENTION: Endothelin Converting Enzyme-1: A

```

TITLE OF INVENTION: Membrane-Bound Metalloprotease That Catalyzes The
 TITLE OF INVENTION: Proteolytic Activation of Big Endothelin-1
 NUMBER OF SEQUENCES: 5
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P.O. Box 4433
 CITY: Houston
 STATE: TX
 COUNTRY: USA
 ZIP: 77210-4433
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/289,112
 FILING DATE: 10-Apr-1994
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Parker, David L.
 REGISTRATION NUMBER: 32,165
 REFERENCE/DOCKET NUMBER: UTSD:414/PAR
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 713-787-1400
 TELEFAX: 713-789-2679
 TELEX: 79-0924
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 758 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-289-112-2

Query Match 31.5%; Score 1248.5; DB 1; Length 758;
 Best Local Similarity 37.9%; Pred. No. 5,8e-114;
 Matches 282; Conservative 121; Mismatches 281; Indels 61; Gaps 21;

23 LVVFGVGTLVGLTILFVSGQLSLQAKQKCYCKPECIEAAMAILSKNLSVDPQCNFR 82
 57 LVVLY-ALMAALVACLAVALGIQYQRTTPSVCLSEACISTVSTLSMDPTVPCODFT 115
 83 PACDGMISNNPIEDMDSYGVYPMLRNVDLKLKELLSISRDRTEAIOXAKILYSSC 142
 116 YACGWMKANPVPDGHSGRWGTFSNLMEHNOAILIKHLENTA--SVSEARKQOYVYRAC 173
 143 MNEKAIKAKAPLILHLIRSPFRWVPLSENIQPEGVMSRKESLQTLATFRGOYSNV 202
 174 MNEIRIELKAKPLMEILKLG-GMNT-----TGPWDKNFQ--DTLQVVTSHYTS 223
 203 FIRLYVSPDDKASNEHLKLDQATLSLAVREDYLDNSTEAKSYRDALYKRMVDYAVLGA 262
 224 FFSYVYVADSKNSNSVNIQVDSGLGPRSDYTL-NKTEBKVLYGLVLMVQGLGLGG 282
 263 NS-SRAHDMKSVLRLEIKTAEIMIPHENTSEAM-YNKKNISELSAMIPQDMLGYIK 320
 283 GAEDTIRPQOQILDEFALANTITLPEKRRDEELIYHKTAELEQTLPAINMLPF--- 339
 321 VIDIRLPHLDISPSENVVAVVQYKDFRILIGSERKKTIANVYVWVYYSRIPNLSR 380
 340 -LNTIFP--VEINESPIYIDKEYLSKVSTLINSKDLANNWIMMLVKTSTSFLLQ 396
 381 RFQQRMLEFSRVIOGT-TTLLPQWDKCVNIESALPVPVGMVVDVYFQEDKKEMBEIV 439
 397 RFDQADERFVWVGITKTCCLPRKFCVSDTEMTLGLALGPMFKATFADSKNISSEII 456
 440 EGVWAFIDMLEKENEMDAGTRKAKERKARAVLAKGYDEFIM-----NTHVNE 490
 457 LEIKAKAEBSI-STLKMDDETRKSAKADAIYMGPNFIMDKREDKQVNDTAYP 515
 491 DLKAIKSEADYFSGNVIQTRKYLQSDFFW-----LRKAVPTKTFMTTNAFYSAS 544

516 DL-----YFENANRP-----FNFSWRVADQLRKAPNDQNSMTPPMVNAVYSP 560
 545 TNOIRPPAGLQKPEFNGTXYPRSLSYGALGVITGHEFTGFPNNGRKYDKNGLDPMWS 604
 561 KNEIVFPAGILQAPFYRRSS-PNALNFGIGIVVGHETLTAFFDQGREYKQDNLRPMWK 619
 605 TESSEKREKTKCMINQVSNYWKAGLNYKGRRTIGENTADNGILREAFRAYRKMINDR 664
 620 NSSVEAFKQCTACWVEQYGVY--SVNGEPVNGHTLIGENTADNGILKAAVRAVQNMV--K 675
 665 RQGLEPILRGITFTNNOLPELSAHRCSYREAPAREQVQIASHPPQFRVNGAISNS 724
 676 KNGABQ-TLPTDGLNNQLFFLSFGQVCSVRTPESHSEGLITDPHSPSRFRVIGISINS 734
 725 EEFQAFNCPNPSNTNRMGMSCRWL 749
 735 KEFSEHFICPPGSPMN-PHHKCEVW 758

RESULT 6
 US-08-646-273-23
 Sequence 23, Application US/08646273
 Patent No. 606502
 GENERAL INFORMATION:
 APPLICANT: Kroeger, Burkhard, Seuberger, Harald, Meyer, Thomas, Schmidt,
 Applicant: Martin, Jacob, Elard, Otter, Rainer, Subkoweki, Thomas, Heinz.
 TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).
 NUMBER OF SEQUENCES: 36
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Kell & Weinlauf
 STREET: 1101 Connecticut Avenue
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20036
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 inch, 1.4 MB storage
 COMPUTER: IBM AT-compatible, 80486 processor
 OPERATING SYSTEM: MS-DOS version 6.0
 SOFTWARE: Mordperfect version 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/646,273
 FILING DATE: 16-Nov-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION NUMBER: PCT/EP94/03706
 APPLICATION NUMBER: PCT/EP94/03706
 FILING DATE: 11-Nov-1994
 INFORMATION FOR SEQ ID NO: 23:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 708 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-646-273-23

Query Match 31.4%; Score 1241.5; DB 3; Length 708;
 Best Local Similarity 37.9%; Pred. No. 2.5e-113;
 Matches 282; Conservative 120; Mismatches 282; Indels 61; Gaps 21;

23 LVVFGVGTLVGLTILFVSGQLSLQAKQKCYCKPECIEAAMAILSKNLSVDPQCNFR 82
 7 LVVLY-ALMAALVACLAVALGIQYQRTTPSVCLSEACISTVSTLSMDPTVPCODFT 65
 83 PACDGMISNNPIEDMDSYGVYPMLRNVDLKLKELLSISRDRTEAIOXAKILYSSC 142
 66 YACGWMKANPVPDGHSGRWGTFSNLMEHNOAILIKHLENTA--SVSEARKQOYVYRAC 123
 143 MNEKAIKAKAPLILHLIRSPFRWVPLSENIQPEGVMSRKESLQTLATFRGOYSNV 202
 124 MNEIRIELKAKPLMEILKLG-GMNT-----TGPWDKNFQ--DTLQVVTSHYTS 173
 203 FIRLYVSPDDKASNEHLKLDQATLSLAVREDYLDNSTEAKSYRDALYKRMVDYAVLGA 262

SEQ ID NO 4
LENGTH: 765
TYPE: PRT
ORGANISM: Human
US-09-819-989-4

Query Match 30.8%; Score 1222.5; DB 4; Length 765;
Best Local Similarity 35.4%; Pred. No. 2,2e-111;
Matches 270; Conservative 145; Mismatches 302; Indels 45; Gaps 20;

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4 ETSS---VETG-KKANR---GTRIAL-VYFVGTVLGTLP--LVSQGL-LSLQAKGE 52
33 EGASDPAMAVGQKGRQLGSRTOLELVLAGASLLALLGLCLVALGVQYHRDPSIS 92
53 YCLKEPCEIAAAAILSKVNLSVDPCCNFFRFACDGMISNNPIPEDMPSYGVYPMIRHND 112
93 TCTLEACIRVAGKILBSLDGVSPCEDFYQSCGMRIRNPDPDGRSRNNTFNSLMDQNG 152
113 LKLELEKSIISRDPDEAIQKAKILYSSQMKKAIKADAKPLHLRHSPPRWVLES 172
153 AILKHLENT--TNSSEAEQKQRFYLSCLQVERIEELGAQPLRDLI-----E 200
173 NIGP--EGVSEKRSKSLQTLATFRGQVNSVFIRLYVSPDKASNEHLKLDQATLSL 229
201 KIGGMNITGPMQDNF--MEVLKAVAGTYRATPFTYVYISADSKSSNSVVIQVDSGLPL 258
230 AYVEDYLDNSTEAKSRDALYKFMVDYAVILGANSRAEHDMKSVLRLEIKIAELMIRP- 288
259 PSSDYIL-NRTANEKLTAYLDYWEELGMLGSRPTSTEBQMOQVLEHIOLANITVPDQ 317
289 ENRTSEAMYNKANISELSAMIPQDMGLYIKKVIDRLYPHLKDIPSENWVVRVPOYER 348
318 QRDDEKTIHKMSISELQALAPGMDWLEFLSLSP-----LELSDSEPVVYVGMQDYLQ 371
349 DLRLILSEKKTITANTLVWRMYTSRIPLNLSRFPQYRMLEPSRVIOGT--TLLPQMDKY 407
372 QVSELINRTEPSTILNNYLLWNLVQKTTSLDRFEESAQSEKLETLVGTIKKSCVPRMOTCI 431
408 NFESALPYVVGKMFVNVYFQEDKEMMELVGVMAFIDMLEKENEMWDAGTKKAKS 467
432 SNDDDLGFLGSLFYKATFDRQSKELAEGLMSEITAFEEAL--GQLVWMDDEKTRPAKE 490
468 KAAVLAIVGVYPEFIMNDTHVNEBDKAIKFSKADYGNVLOTRKYLAQSDFFMLRAVVK 527
491 KAAIADIMIFPDIIEPKELDYYDGEISEDSFQNMMLNLYNFAKYMADQLRKXPSR 550
528 TEMPTNPTNAFASASTNOIRFPAGELQKPFMGTEYPRSLSYGAIYGVHGFTHGFD 587
551 DQSMTPQYVNAATYLPFKNEIVFPAGILOAPFY--AANHPRALNFGGIVVMGHELTHAD 609
588 NNGKRYDKGNLDPWMSSESEKPEKTKCMINQYNSYWKAGLVNKGKRTIGENIADN 647
610 DQGEIYKQENLRPMQNESILAFRNHTACMEQYNY--QVNGEHLNGQITGEBIADN 667
648 GGLREAPRAYKYNINDROGLEBELLPGITFTNNOLFPLSYAHVRCNSYRPEARQVQYI 707
668 GGLKAAVNAIKAM--RKHG--EEQQLPAVGLTNHQLPFGVFAQVWCSVTRPSSHEGLVT 724
708 GAHSPQFRVNGAISNESEFOKAFNCPNSTNNGDSCRLW 749
725 DPHSPARFVLTGLNSRDLRHRFGCVGSPMNPFG--QLCEVW 765
```

RESULT 9
US-09-819-989-2
Sequence 2, Application US/09819989
Patent No. 6482629
GENERAL INFORMATION:
APPLICANT: MEI, Ming-Hui et al.
TITLE OF INVENTION: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC
ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES
THEREOF
FILE REFERENCE: C1001200

CURRENT APPLICATION NUMBER: US/09/819,989
CURRENT FILING DATE: 2001-03-29
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2
LENGTH: 811
TYPE: PRT
ORGANISM: Human
US-09-819-989-2

Query Match 30.8%; Score 1221; DB 4; Length 811;
Best Local Similarity 35.2%; Pred. No. 3,4e-111;
Matches 264; Conservative 144; Mismatches 303; Indels 38; Gaps 17;

```
10 ETGKANRGTRIAL-VYFVGTVLGTLP--LVSQGL-LSLQAKGEYCLKEPCEIAAAA 65
92 QKGRQLGSRTOLELVLAGASLLALLGLCLVALGVQYHRDPSHSTCTLEACIRVAGK 151
66 ILSKVNLSVDPCCDFFRFACDGMISNNPIPEDMPSYGVYPMIRHNDLKLKLEKSIISR 125
152 ILBSLDGVSBCEDFYQSCGMRIRNPDPDGRSRNNTFNSLMDQNALIKHLENT--TF 210
126 RRDTEAIQKAKILYSSQMKKAIKADAKPLHLRHSPPRWVLESNIGP--EGVWSE 182
211 NSSEAEQKQRFYLSCLQVERIEELGAQPLRDLI-----EKIGGMNITGPMQDNF 259
183 KPELQTLATFRGQVNSVFIRLYVSPDKASNEHLKLDQATLSLAVVEDYLDNSTEA 242
260 DNF--MEVLKAVAGTYRATPFTYVYISADSKSSNSVVIQVDSGLFSPSDYIL-NRTAN 316
243 KSYDALYKFMVDYAVILGANSRAEHDMKSVLRLEIKIAELMIRP-ENRTSEAMYNKAN 301
317 EKVLTAYLDYWEELGMLGSRPTSTEBQMOQVLEHIOLANITVPDQQRDEKTIHKMS 376
302 ISELSAMIPQDMGLYIKKVIDRLYPHLKDIPSENWVVRVPOYERFQDLRLILSEKKT 361
377 ISELQALAPGMDWLEFLSLSP-----LELSDSEPVVYVGMQDYLQVSELINRTEPST 430
362 IANTLVWRMYTSRIPLNLSRFPQYRMLEPSRVIOGT--TLLPQMDKYNFESALPYVVGK 420
431 LANTLVWLVQKTTSLDRPESAEQSEKLETLVGTIKKSCVPRMOTCISNDDDLGFLGSL 490
421 MFVDYVYFQEDKEMMELVGVMAFIDMLEKENEMWDAGTKKAKAIVLAIVGVYPE 480
491 LFVYATFDRQSKELAEGLMSEITAFEEAL--GQLVWMDDEKTRPAKAAIADIMIFGPD 549
481 FIMNDTHVNEBDKAIKFSKADYGNVLOTRKYLAQSDFFMLRAVVKTEMPTNPTVNAF 540
550 FILERKELDDYDGEISEDSFQNMMLNLYNFAKYMADQLRKXPSRQDQSMTPQYVNA 609
541 YSASTNOIRFPAGELQKPFMGTEYPRSLSYGAIYGVHGFTHGFDNNGKRYDKGNL 600
610 YLPFKNEIVFPAGILOAPFY--AANHPRALNFGGIVVMGHELTHADPQDQREYKXENLR 668
601 PWSSTSESEKPEKTKCMINQYNSYWKAGLVNKGKRTIGENIADNGLEAPRAYKYN 660
669 PMQNESILAFRNHTACMEQYNY--QVNGEHLNGQITGEBIADNGGLKAAVNAIKAM 726
661 INDRQGLEBELLPGITFTNNOLFPLSYAHVRCNSYRPEARQVQYGAHSPQFRVNGA 720
727 L--RKHG--EEQQLPAVGLTNHQLPFGVFAQVWCSVTRPSSHEGLVTDPHSPARFVLT 783
721 ISNESEFOKAFNCPNSTNNGDSCRLW 749
784 LNSRDLRHRFGCVGSPMNPFG--QLCEVW 811
```

RESULT 10
US-09-667-373-4
Sequence 4, Application US/09667373
Patent No. 6524840
GENERAL INFORMATION:
APPLICANT: Donoho, Gregory

APPLICANT: Turner, C. Alexander Jr.
 APPLICANT: Nehls, Michael C.
 APPLICANT: Friedrich, Glenn
 APPLICANT: Zambrowicz, Brian
 APPLICANT: Sands, Arthur T.
 TITLE OF INVENTION: No. 6524840el Human Endothelin Converting
 TITLE OF INVENTION: Enzyme-Like Proteins and Polynucleotides Encoding the Same
 FILE REFERENCE: LEX-0043-USA
 CURRENT APPLICATION NUMBER: US/09/667,373
 PRIOR FILING DATE: 2000-09-22
 PRIOR APPLICATION NUMBER: US 60/156,102
 PRIOR FILING DATE: 1999-09-24
 PRIOR APPLICATION NUMBER: US 60/176,689
 NUMBER OF SEQ ID NOS: 5
 SOFTWARE: FASTSEQ for Windows Version 4.0
 SEQ ID NO: 4
 LENGTH: 883
 TYPE: PRT
 ORGANISM: homo sapiens
 US-09-667-373-4

Query Match 30.8%; Score 1221; DB 4; Length 883;

Best Local Similarity 35.2%; Pred. No. 3.9e-111;

Matches 264; Conservative 144; Mismatches 303; Indels 38; Gaps 17;

QY 10 ETGKAKRGTRIAL-VYFVGTVLGTILF--LVSGQL-LSLQAKQCYCLKPECTEAAA 65
 DB 164 QKGRQLGSGRTQELVLAGASLLALALGCLVALGVQHRDPSHSTCTEACIRVAGK 223
 QY 66 ILKVNLSVDCDNFEPFACDGMISNNPIEDMPSYGVYVWLRHNVDLKLEKLEKISIR 125
 DB 224 ILSDGNSVPCEDFYQSCGGMIRNPLPDGRSRMTFMSIMQNALIKHLENT-TF 282
 QY 126 RRDTRALOKATILSSCMNEKAIKADAKPLILHRSPPRPVLESNTGP--EGWSE 182
 DB 283 NSSSEABKCTGRFLSLQYVERIELGAQPLRDLI-----EKIGWNITGWDQ 331
 QY 183 RKFSLLQTLATFRQYSNSVFIRLVYSPDPAKSNHILKLDQATLSLAVEDYLDNSTEA 242
 DB 332 DNF--MEVLKAVAGTYRATPFYTYISADSKSSNSNIQVDSGLFSPSDYL-NRTAN 388
 QY 243 KSYDALYKENVDTAVILGANSRAEHDMKSVLRLEIKIAEIMIPH-ENRTSEAMYNKN 301
 DB 389 EKVLTAIYLDYMEELGMLGGRPTSTREMOQVLELTIQANITVPDQGRDEEKIYKMS 448
 QY 302 ISELSAMIPQPDWIGYIKKVIDTILYPHLKDISPSENVVYRVQYFQDLFRILGSRKKT 361
 DB 449 ISEIQLALPSPMDWLEFSLSP-----LELSDSEFVVYGMIDYLDQVSEBLNRTESP 502
 QY 362 IANYLVNMYVSRIPNTSRPFQYMWLEBSRVIOGT-TTLLPOMDKCVNFTESALPYVVGK 420
 DB 503 LNNYILNWLVOCTSSLDPRPESAQOEKLETLTGKKSQVPRMOTCISNTDDALGALGS 562
 QY 421 MFUVVYFQEDKEMMEBELVEGVRAFDIMLEKENMMDAGTKRKAKEAAVLAQVYPE 480
 DB 563 LFWATFPRQSKELAEGLISIRTAPEAL-GQLVMDEKTRQAKAKAALIDMIGFPD 621
 QY 481 FINNDTVNEDLKAIKESADYFGNVLQTRKYLAQSDFFWLKRAVPTKTEFTPTYNAF 540
 DB 622 FILPKHELDVYDGEISEDSFPQNMNLNMFSAKWADQKRKPSADQSMPTQYNAY 661
 QY 541 YSASTNQIRPAPAGELQPFVWGTVEPRSLGAIQVTVGHEFTFGPNNGRKIDKNGTLD 600
 DB 682 YLPTKNEIVFPAGLIQAIFY-ARNHPKALNFGGIVVMGHELTAPDQSRBYDKENLNR 740
 QY 601 PWSSESEKKEKTKCMINQSYNMYWKAQIANYKGRITGENTADNGGLREAFRAYRYN 660
 DB 741 FPMQNEISLAARNTTACREBOYNOY--QVNGERLNGQITGENTADNGGLKAAVNAIKAY 798
 QY 661 INDRQGLEEPLLPGLITFTNNQLFFLSYAHVRCNSYRPEARRECVQIGASPPQFRVNGA 720
 DB 799 L--EKHG--EEQOFLPAVGLTNHQLFFVGFPAQVMSVTRPESHEGLVTPDPSPARFRVLGT 855

QY 721 ISNSEFOKAPNCPNSTNRGMDSCRLW 749
 DB 856 LNSRDLRHLHFGCPGSPNRPQ-QLCEFW 883

RESULT 11
 US-08-574-763-2
 Sequence 2, Application US/08574763
 Patent No. 5736376
 GENERAL INFORMATION:
 APPLICANT: Yanagisawa, Masashi
 TITLE OF INVENTION: RECOMBINANT ENDOTHELIN CONVERTING
 TITLE OF INVENTION: ENZYME-2 AND ITS USE IN ECE INHIBITOR SCREENING
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: Arnold, White & Durkee
 STREET: P. O. Box 4433
 CITY: Houston
 STATE: TX
 COUNTRY: USA
 ZIP: 77210-4433
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/574,763
 FILING DATE: Concurrently herewith
 CLASSIFICATION: 530
 ATTORNEY/AGENT INFORMATION:
 NAME: Corder, Timothy S.
 REGISTRATION NUMBER: 38,414
 REFERENCE/DOCKET NUMBER: UTXD:472
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (512) 418-3000
 TELEFAX: (512) 474-7577
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 787 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 US-08-574-763-2

Query Match 29.9%; Score 1184; DB 1; Length 787;

Best Local Similarity 35.1%; Pred. No. 1.4e-107;

Matches 265; Conservative 138; Mismatches 313; Indels 38; Gaps 18;

QY 4 ETGSSVETGKAKRGTRIALVYFVGTVLGTILF--LVSGQL-LSLQAKQCYCLKPECT 60
 DB 64 EAGFRRTSRILGTLQLELV--AGVSLILALALGCLVALGVQHRDPSHSTCTEACI 122
 QY 61 EAAAILSKVNLSVPCDNFEPFACDGMISNNPIEDMPSYGVYVWLRHNVDLKLEKLE 120
 DB 123 RVAKILSLDGVSPCEDFYQSCGGMIRNPLPDGRSRMNSNSLWDQNALIKHLE 182
 QY 121 KSISSRRDTEALOKKILYSSCMNEKAIKADAKPLILHRSPPRPVLESNTG--PE 177
 DB 183 NT--TNSSEABKCTGRFLSLQYVERIELGA-----HALND-----LIDKIGMNV 230
 QY 178 GWSSEKSLQTLATFRQYSNSVFIRLVYSPDPAKSNHILKLDQATLSLAVEDYLD 237
 DB 231 GPMDDNF--MEVLKAVAGTYRATPFYTYISADSKSSNSNIQVDSGLFSPSDYL- 287
 QY 238 NSTEAKSYDALYKENVDTAVILGANSRAEHDMKSVLRLEIKIAEIMIPH-ENRTSEAM 296
 DB 288 NRTANEXYLTALDYMEELGMLGGRPTSTREMOQVLELTIQANITVPDQGRDEEKI 347
 QY 297 YKNANISELSAMIPQPDWIGYIKKVIDTILYPHLKDISPSENVVYRVQYFQDLFRILGS 356
 DB 348 YHKMSIAELQALPMDWLEFSLSP-----LELSDSEFVVYGMIDYLDQVSEBLNR 401

QY 357 ERKKTIANLYVMWYSRIENLSRRFOYMWLEFSRVIOGT-TTLPLQMDKCVNFIESALP 415
DB 402 TERSVANNYLIWLVQKTTSSLDHRESAQEKLELYGTKXSCPRWQTCISNTDDALG 461
QY 416 YVVGKRFVDYFQEDKXEMMEELVEGVRAFMTEKEKEMNDAGTKRKAERAAVYLAK 475
DB 462 FALGSLFVAKTFROSSEIAEAGMISIRVAFEEAL-GHLYMDEKTRQAKERKAALYDM 520
QY 476 VGYPEFMDTHVNEDEKAIKFEADYFGVNLQTRKYLAQSDPFMLRKAVPRTWFTNPT 535
DB 521 IGRPDLFLEKELDDVDYDGEVSEDSFQGMNMLNFMFAKMAADQARKPSDDQSMTPQ 580
QY 536 TNAFTSASTNQIRFPAGELOKPFWGTBYRSLSGAIGVYGEHFTGFPNNGRKIDK 595
DB 581 TVNAYYLPTRNEIVFPAGILOAPFY-TCNHPALNFGGIGVWGHETLTAFFDQGRBYDK 639
QY 596 NGULDPWMSPESEBEKPEKTKCMINQYSNYMKKALNFKKRTLGEINADNGLEAPR 655
DB 640 EQLRPMWQNEELAAFRNHTACIEEYQSY--QVNGEKANGKOTLGENIADNGLEKAAVN 697
QY 656 AYKWMINDRROGLEEBLLPGITFTNNQIFLSYAHVRCNSYREPARAQVOIGASPPQF 715
DB 698 AYKAM--RKHG-EEQQLPVGGLTNHQLPFGVGAQWCSVTPBESHEGLVTDPSHAPF 754
QY 716 RVNGAISNSEEPOKAFNCPNSTMNRGMDSCRLM 749
DB 755 RVLGTLNSRDLRFLHFGCPVGSFMSNG-OLCEVW 787

RESULT 12

US-09-305-640-2
; Sequence 2, Application US/09305640B
; Patent No. 6255468
; GENERAL INFORMATION:
; APPLICANT: SmithKline Beecham plc
; TITLE OF INVENTION: No. 62554681 Compounds
; FILE REFERENCE: GP30124
; CURRENT APPLICATION NUMBER: US/09/305,640B
; CURRENT FILING DATE: 1999-05-05
; NUMBER OF SEQ. ID NOS: 4
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ. ID NO 2
; LENGTH: 775
; TYPE: PR1
; ORGANISM: Homo sapiens
US-09-305-640-2

Query Match 24.8%; Score 983.5; DB 3; Length 775;
Best Local Similarity 31.0%; Pred. No. 8.9e-88;
Matches 233; Conservative 159; Mismatches 294; Indels 67; Gaps 19;

QY 23 LVVFGGTVLGTILFVSGQLSL--QAKQCYCLKPECIEAAAIL-SKVMLSVDPQCN 79
DB 66 LVPAAGCALIAMLAKTIGPYAAGGACPECCPERKAFAPARALANLADSIDPCDD 125
QY 80 FFRPADGWMISNPIDEMPSYGVYPMLRHNVLDKIKELIKSISRRTTEAIQAKIIV 139
DB 126 FYEFACGGMRLRRHAIIDDKLTYGTIAIGQNEERLRRLARP-GGGPGAAQKRKRAF 184
QY 140 SSCMNEKAIKKAQAKPLHLHRSPPRWPLSENIPGVW-----SER-----KPSILQ 189
DB 185 RSCIDMEIERLGRPRFLVIEDC-----GMDIGAGEEPRGVAARDDLNR 230
QY 190 TLATFRQYNSVFIIRLYVSPDDKASNEHLKLDQATLSIAVEDYLDNSTEAKSYRDL 249
DB 231 LLYAAGQVYSAALFSLTVSLDRNSRYVIRIDQGLTLPERTLYIADDESEKILAY 290
QY 250 YKFMVDRAVLIGANSSAEDHMSVRLKIKIABIMIPHEN--RTSEAMYNQNMISELS 306
DB 291 RVNMRRLSLGADA--VEQKAGEIILQVEQQLANTVSEVDLRRVSSMKNTKVTIGQLQ 348
QY 307 AMIPQDMIGYIKKVIDTRLYPHLKDISPENYVVRPOYFKDLFRLGSEKRTIANTYL 366

DB 349 KITPRLKMKLLDQIFQ-----EDFSSEBEVLLATDYMQQVQLIRSTRPRLVNTYL 401
QY 367 VMRWVYSRIDNLSRRFOYRWLEFSRVIOGTTLLPQMDK-----CVNFIESALPYVG 419
DB 402 VMRYVYVLSLHSLSPFEBALHELQEMEGS-----DKQELARVYICGAGNHHFGALG 454
QY 420 KMFVDYVFOEDKXEMMEELVEGVRAFMTEKEKEMNDAGTKRKAERAAVYLAKYGP 479
DB 455 ALFVHEHFSASAKAVQQLVEDIKYILGCRLE-ELDMDAETRAAARAKQYMMVWGYP 513
QY 480 EFINMDTHVNEDEKAIKFEADYFGVNLQTRKYLAQSDPFMLRKAVPRTWFTNPTVNA 539
DB 514 DFLKPAVDKFE-EVHEKTYFKNLINSIRSIQLSYKIKQEBDKSWLPPQALNA 572
QY 540 FYSASTNQIRFPAGELOKPFWGTBYRSLSGAIGVYGEHFTGFPNNGRKIDKXNNT 599
DB 573 YLLPNKQWMPAGIILQ-PLTYDPDFQSLNYGIGITIIHELTHGYDDMGQYDSSGNL 631
QY 600 DPMWSTSEBEKPEKTKCMINQYSNY--YMKKGLVWKGRTLGENIADNGLEAPR 657
DB 632 LHMWTEASYSRFLKACIYALYDNFTVINQ--VNGHILGENIADNGLEKAAVN 687
QY 658 RKWMINDRROGLEEBLLPGITFTNNQIFLSYAHVRCNSYREPARAQVOIGASPPQF 717
DB 688 QKWV--REHGBEHP-LPRLKYTHDQLEFFIAQNMWCIKRSQSYIQLVLDKAPBEHYR 744
QY 718 NGAISNSEEPOKAFNCPNSTMNRGMDSCRLM 749
DB 745 LGSVQFEFEFGRAHFCPKDSFNNPA-HKCSVW 775

RESULT 13

US-08-646-273-19
; Sequence 19, Application US/08646273
; Patent No. 6066502
; GENERAL INFORMATION:
; APPLICANT: Kroeger, Burkhard, Seuberg, Harald, Meyer, Thomas, Schmidt,
; Applicant: Martin, Jacob, Blard, Oter, Rainer, Subkowski, Thomas, Hellen,
; TITLE OF INVENTION: Endochelin Converting Enzyme (ECE).
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Kell & Weinhauf
; STREET: 1101 Connecticut Avenue
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage
; COMPUTER: IBM AT-compatible, 80486 processor
; OPERATING SYSTEM: MS-DOS version 6.0
; SOFTWARE: WordPerfect version 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/646,273
; FILING DATE: 16-NOV-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP94/03706
; FILING DATE: 11-NOV-1994
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 567 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-646-273-19

Query Match 24.3%; Score 963.5; DB 3; Length 567;
Best Local Similarity 37.7%; Pred. No. 4.9e-86;
Matches 226; Conservative 96; Mismatches 216; Indels 61; Gaps 21;
QY 106 WLRNVNLDKIKELIKSISRRTTEAIQAKIIVSSCMNEKALEKADAKLHLHRSF 165


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Db      12 W EHNQAI IKHLEENSTA--SVSEAEKDOEYRAACNNEIRIEELKAKPLMELIKG- 66
Qy      166 RMPVLESNIIGEGVWSEKRSFLQTLATFERQYNSVFIRLYVSPDDKASNEHILKDOA 225
Db      67 GNNI-----TGPDKNFQ--DILQYVTHSHYHSPPFSYVVAADNSNSNVIQVDS 117
Qy      226 TLSTAVREDYLDNSTEAKSYRDALYKFWDTAVILGANS-SPAEDMKSVLRLEIKAEI 284
Db      118 GIGLPSRDYLL-NKTEENKVLGYLANYVOLGKLGGGAEDTIRPOMQOIIDFETALANI 176
Qy      285 MIPHENRTSEAM-YNRKNNISELSAMIPOFDMIGYIKVYIDTRLYPHLKDIPSSNVVVRV 343
Db      177 TIPQKRDDELIYHKVTAABEQLTAPAINHPF-----LNTIFPD--VEINSEPIYID 230
Qy      344 POYFQDLFRILGSEKKTITANTLVWRMYSRIPNISRRFOYRWLSEFSEYIGT-TLLLPQ 402
Db      231 KEYSKRVSTLINSTDKCLNNMIMNLVYKTISSFIDQRFQDADEKFMVYGTKTCGLPR 290
Qy      403 WDKCNFIESALPYVVGQFVVDVYQEDKEMMEELVGVWAFITDMLKENEMNDAGTK 462
Db      291 MKFCVSDIENTLGFALGMPFVKATPAEDSKNASHETIIEIKAEBSL-STLKMDSDTR 349
Qy      463 RRAKAKAVLAKGYPEFIM-----NDTHVNEDLKAIFSEADYFGNVLOTQKYL 513
Db      350 KSAEKADAIYNMIGYPMFIMDPKELDKVNDYTAVPDL-----YFENAMRF----- 396
Qy      514 AQSDPF-----LRKAVKTEMFTNPTTNAFASASTNOIRPAGELQYPFMGTEYPR 567
Db      397 --FMSWVTADQKRAKARNQMSMTPEWVAAYSPTEINLVFAGILOAPFYRS-SFN 453
Qy      568 SLASYAGIVGVHEFTGPDNNGRKYDKNGNLDPMWSTESSEKKEKTKCMINQSYW 627
Db      454 ALNFGIGVVGVELTHAFDDQGREYDDGNLRPMWNNSSVEAKKQCTACVDEYGY-- 511
Qy      628 KKAAGLVKAGKTLGENTLADNGLRAPAPATKMINDRQGLEELPAGITFTNNQLEFL 686
Db      512 SVNGEPVNGRHTLGENIADNGLRKAAAYAYONWV--KNGAEQ-TLEPLGITNNQLEFL 567

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RESULT 14
US-09-328-352-5182
; Sequence 5182, Application US/09328352
; Patent No. 6562858
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; FILE REFERENCE: GTC99-0352
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 5182
; LENGTH: 690
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
US-09-328-352-5182

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Query Match      20.0%; Score 790; DB 4; Length 690;
Best Local Similarity 30.3%; Pred. No. 9,4e-69;
Matches 209; Conservative 132; Mismatches 279; Indels 70; Gaps 18;
Qy      70 VNISVDCDNFRACGWSNNPIPEDMPSYGVYFWLRNVDLKLKL--LEKSISSRR 127
Db      50 IDSSISKNDPYAHVANGIWMKNTETIPADKANWGAFNQLR--SLISQVGIYEBLSRKK 106
Qy      128 --DTEAIOKALIVSSCMNEKALEKADAKPLHLIRSPRPWPLASNIGEGVWSEKRF 185
Db      107 WADGSLQKIALTYASPMDEKIEKGIIFLQAEIINGI-----DLKNNKQI 153
Qy      186 SLQTLATPRGQVSNISFIRLYVSPDDKASNEHILKDOATLSTLAVREDYLDNSTEAKSY 245
Db      154 AVL--MAHFARINVNSP-IGLIGIEQDKKSTENVAGLEQGLPDRDYLLKDDKKFIET 210

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Qy      246 RDALYKFWDTAVILGANSRRAEDMKSVLRLEIKAEIMIPH-ENRTESEAMYNKNNISE 304
Db      211 RAQYIAKTIKTIKTL--AEBSQAAGHAGETIKLETQALRQMSNVQNRDLAKRYNKKLAD 268
Qy      305 LAMNIDQFPMUGY-----IKKVIDTRLYPHLKDIPSSNVVVRVPOYFQDLFRILGSEK 359
Db      269 LVYLTAPAFPMOGLTATTELKGIIDT-----IQVNOQDYFQGLNTIIONTEPL 314
Qy      360 KTIANTLVWRMYSRIPNISRRFOYRWLEF-SRVIQGTTLTLPQMDKCNFIESALPYV 418
Db      315 DTKAVFKHLINNSPPLNSAFVNDKPFYKKTIDITQEQARKRGYQVLDKVLGDCI 374
Qy      419 GRNFVDVYQEDKEMMEELVGVWAFITDMLKENEMNDAGTKKAKAKAVLAKVY 478
Db      375 GKLYVERKYPFAEKQOMELLVQNLIRAY-DQSTIELDMSPATKIOARKLSHMSIKIGY 433
Qy      479 PERIMDTHVNEDLKAIFSEADYFGNVLOTQKYLQSGFFLRKAVKTEFTNPTTN 538
Db      434 FK-----KRDYSDLHAKDVLGNITRASEFRYQTEHLNLGKPVDDDEWYMKPQTN 486
Qy      539 AFYSASTNOIRPAGELQYPFMGTEYPRSLSYGALGVGVHEFTGPDNNGRKYDKNGN 598
Db      487 AYTNPSELNITVEPALIQPF--NINADAVVGGIGAVIGHEISHGFDQSSQFDEGN 545
Qy      599 LDPWSTESSEKKEKTKCMINQSYWYKAGLVKAGKRTIGENIADNGLRAPRVR 658
Db      546 MRRWMAEDHOFKAKTOALIBQY-NRYPPIGYHNSBELTGENIANSGLALVYKYO 604
Qy      659 KNINDRQGLEELPAGITFTNNQLEFLSYAHVRCNSRPEARQVOIGASPPQFVN 718
Db      605 IALG-----GKPAFVLDG--QTGEQRFYMGMAVWAKRREAOALITLKTDRHSPKAKGN 658
Qy      719 GAISSESEQKAFN-----CPNSTGN 740
Db      659 GALNQKPYEAFKINBDQWTLPEKRYN 688

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RESULT 15
US-08-646-273-14
; Sequence 14, Application US/08646273
; Patent No. 6066502
; GENERAL INFORMATION:
; APPLICANT: Kroeger, Burkhard, Seubberger, Harald, Meyer, Thomas, Schmidt,
; APPLICANT: Martin, Jacob, Eldar, Oteri, Rainer, Subkowski, Thomas, Hiltner, Heinz.
; TITLE OF INVENTION: Endothelin Converting Enzyme (ECE).
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESS: Keil & Weinkauff
; STREET: 1101 Connecticut Avenue
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 1.4 Mb storage
; COMPUTER: IBM AT-compatible, 80486 processor
; OPERATING SYSTEM: MS-DOS version 6.0
; SOFTWARE: WordPerfect version 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/646,273
; FILING DATE: 16-NOV-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP94/03706
; FILING DATE: 11-NOV-1994
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 189 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-646-273-14

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Query Match 13.3%; Score 527.5; DB 3; Length 189;
 Best Local Similarity 51.8%; Pred. No. 8,5e-44;
 Matches 101; Conservative 32; Mismatches 55; Indels 7; Gaps 5;

QY 555 LQKPFMGTEYPRSLSYGAIGVIVGHEFTGFPDNGKTYDKGNLDPWMTSESEKEXK 614
 DB 2 LQAPFYTRSS-PNALNFGIGVVGHELTAFDDQGREYDKGNLPPWKNSSVEAFKQ 60

QY 615 TKCMINQYSNYWKAGLNYKGRITLGENIADNGGLREAFRAYRWINDROGLSEPLP 674
 DB 61 TACMVEQYGNV--SYNGEPVNGRHITLGENIADNGGLKAAVRAQNVV--KKGAEQ-TLP 115

QY 675 GITFTNNQLFFLSYAHVRCNSYRPEAREVOIGAHSPPOFRVNGAISNSEPQKAFNCP 734
 DB 116 TLGLITNNQLFFLSPAQVWCSTRTPESSHGLITDPHSPSRFRVIGSISNSKEFSEHFCP 175

QY 735 PNSTNNRGMDSCRLW 749
 DB 176 PGSPNN-PHHKCEVW 189

Search completed: February 20, 2004, 14:26:14
 Job time : 32.3726 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 20, 2004, 14:19:33 (Search time 58.7451 Seconds
(without alignments)
2669.624 Million cell updates/sec

Title: US-09-913-955a-1

Perfect score: 3958
Sequence: 1 MEATGSSVETGKXNRGTR.....AFNCPNSTNRGMDSCRLM 749

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 801455 seqs, 209382283 residues

Total number of hits satisfying chosen parameters: 801455

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database: Published Applications AA:

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1: /cgn2_6/ptodata/1/pubppaa/US07_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubppaa/PCT_NEW_PUB.pep.*
3: /cgn2_6/ptodata/1/pubppaa/US06_NEW_PUB.pep.*
4: /cgn2_6/ptodata/1/pubppaa/US06_PUBCOMB.pep.*
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9: /cgn2_6/ptodata/1/pubppaa/US09_PUBCOMB.pep.*
10: /cgn2_6/ptodata/1/pubppaa/US09_PUBCOMB.pep.*
11: /cgn2_6/ptodata/1/pubppaa/US09C_PUBCOMB.pep.*
12: /cgn2_6/ptodata/1/pubppaa/US09C_NEW_PUB.pep.*
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14: /cgn2_6/ptodata/1/pubppaa/US10B_PUBCOMB.pep.*
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17: /cgn2_6/ptodata/1/pubppaa/US60_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1361.5	34.4	779	US-10-104-047-3386	Sequence 3386, App
2	1352	34.2	753	US-10-147-828-6	Sequence 6, App11
3	1333.5	33.7	779	US-10-147-828-4	Sequence 4, App11
4	1333.5	33.7	779	US-09-905-846-2	Sequence 2, App11
5	1333.5	33.7	779	US-10-192-407C-2	Sequence 2, App11
6	1333.5	33.7	779	US-10-017-273A-6	Sequence 6, App11
7	1322.5	33.4	691	US-10-147-828-2	Sequence 2, App11
8	1321	33.4	742	US-10-274-639-13	Sequence 13, App1
9	1323	30.9	736	US-09-978-295A-526	Sequence 526, App
10	1323	30.9	736	US-09-978-697-526	Sequence 526, App
11	1323	30.9	736	US-09-978-192A-526	Sequence 526, App
12	1223	30.9	736	US-09-999-832A-526	Sequence 526, App
13	1223	30.9	736	US-09-978-189-526	Sequence 526, App
14	1223	30.9	736	US-09-978-608A-526	Sequence 526, App
15	1223	30.9	736	US-09-978-585A-526	Sequence 526, App

16	1223	30.9	736	US-09-978-191A-526	Sequence 526, App
17	1223	30.9	736	US-09-978-403A-526	Sequence 526, App
18	1223	30.9	736	US-09-978-554A-526	Sequence 526, App
19	1223	30.9	736	US-09-999-833A-526	Sequence 526, App
20	1223	30.9	736	US-09-981-915A-526	Sequence 526, App
21	1223	30.9	736	US-09-978-824-526	Sequence 526, App
22	1223	30.9	736	US-09-918-585A-526	Sequence 526, App
23	1223	30.9	736	US-09-978-423A-526	Sequence 526, App
24	1223	30.9	736	US-09-978-133A-526	Sequence 526, App
25	1223	30.9	736	US-09-999-830A-526	Sequence 526, App
26	1223	30.9	736	US-09-978-757A-526	Sequence 526, App
27	1223	30.9	736	US-09-978-187B-526	Sequence 526, App
28	1223	30.9	736	US-09-978-633A-526	Sequence 526, App
29	1223	30.9	736	US-09-978-375A-526	Sequence 526, App
30	1223	30.9	736	US-09-978-188A-526	Sequence 526, App
31	1223	30.9	736	US-09-978-289A-526	Sequence 526, App
32	1223	30.9	736	US-10-143-021A-526	Sequence 526, App
33	1223	30.9	736	US-10-002-967A-526	Sequence 526, App
34	1223	30.9	736	US-10-017-083A-526	Sequence 526, App
35	1223	30.9	736	US-10-143-030A-526	Sequence 526, App
36	1223	30.9	736	US-10-199-672-420	Sequence 420, App
37	1223	30.9	736	US-10-187-749-420	Sequence 420, App
38	1223	30.9	736	US-10-194-457-420	Sequence 420, App
39	1223	30.9	736	US-10-145-128A-526	Sequence 526, App
40	1223	30.9	736	US-10-184-642-420	Sequence 420, App
41	1223	30.9	736	US-10-196-747-420	Sequence 420, App
42	1223	30.9	736	US-10-173-690-420	Sequence 420, App
43	1223	30.9	736	US-10-173-691-420	Sequence 420, App
44	1223	30.9	736	US-10-173-691-420	Sequence 420, App
45	1223	30.9	736	US-10-173-692-420	Sequence 420, App

ALIGNMENTS

```
RESULT 1
US-10-104-047-3386
; Sequence 3386, Application US/10104047
; Publication No. US20030236392A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: No. US20030236392A1 full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR FILING DATE:
; PRIOR APPLICATION NUMBER:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 3386
; LENGTH: 779
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-104-047-3386
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Query Match 34.4%; Score 1361.5; DB 12; Length 779;
Best Local Similarity 39.8%; Pred. No. 1.6e-116;
Matches 288; Conservative 145; Mismatches 254; Indels 37; Gaps 17;

QY	42	QGLSLQAKQETCLPCELEAAALISKVNSVDCNFPKACGWISNNPIEDMSY	101
DB	77	RQIPKQSESEACTPGCVIAARILQNMDDPTCECDPFCACGWRHVTPEISRY	136
QY	102	GYVFWLRHNVDPKLELEKESISRRDTEAIOKALILYSSCNEKAIKKAUKPLHLIR	161
DB	137	SIFDVLRDELVLITLAVLENSGA--KORPAYEKATILYRSCNQSIVTEKRSQPLDIL-	193
QY	162	HSPFRMPVLESITGSEGWSEK--KESLQTLATFRQYNSVYIRLYVSPDDKASNEH	218
DB	194	EYVVGKFPVAMDR-----WNEIVGLKWEILERLALMNSQFNRRVLIIDFIWDDNSSRH	247
QY	219	IKLDOATSLAVREDYLDNSTEAKSYDALYKFWVDYAVLL--GANSGR-----AEHMK	272

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Db      248 IIVIDPGLGMPREYFNGSGNRK-VREAYLQFMVSVATLLREDANLPRDSCLYOEDMV 306
Qy      273 SVLRLEKIAWIPHENRTSE-AMYNKNISELSAM--IPQDWLGVIKKVIDRLYPH 329
Db      307 QVLELTQAKAVPOBERHDVALYHRNGLEBLOSQFGKGFNWLFIQTWLS----- 361
Qy      330 LK-DIPSENVVVRVQYFQDLFRILGSEKRTIANYLVWVYSRIPNLSRPPQTRMLE 388
Db      362 VKIKLPDEEVVYVGIPLYQNLNENIIDTYSARTIQNYLVWRLVLDRIIGLSQRFKOTRYN 421
Qy      389 FSNVIGGTTLLPQMDKCNVFIKSLPYVVGKMFVVDVYQEDKEMMEELVGVVMAFID 448
Db      422 YRKALGTMVEYKMECEGVYVSNMENAAGSLYEAAPGDSKSWRELIDKRVTFVE 481
Qy      449 MLEKENEMWDAGTKRKAKEKARAVALKVGYPEFIMNDTH--VNEDKALFSEADYFGNV 506
Db      482 TLID-ELGMDDESKKAQEKAMSIHQIGHPDYILLETETRRLDDEBSNINFSEDLYFENS 540
Qy      507 LQTRKYLQSDPFWMLKRAVPKTEFPTNPTVNAFYASASTNQIRPAGELQKPFMGTEVP 566
Db      541 LQWLKVGQKSLRKLEKVDENIMITGAAYVNAFISPNRQIVFPAGIILQPPFF-SKEOP 599
Qy      567 RSLSYGALGVIYGHFTHGFDDNGKRYDKXGNDLPMWSTSEBEKFEKTKCMINOYSNY 626
Db      600 QALNFGGIGMVGHEITTHGFDDNGRNFDPKXGNDMWSNFTQHFRQSECMITQYGNYS 659
Qy      627 WKKA-GLNYGKRTLGENTLNDGILREAPRAVKYINDRQGLEBPLFGITFTNNQLF 685
Db      660 WDLADQONVGFNTLGENIADNGVQAYKAYLKM--AEGKQQLPGLDLTHEQLFP 716
Qy      686 LSYAHYRCSYRPEAREVQIGASHPPQFVNGAISNSEBFOKAFNCPNSTNRGMS 745
Db      717 INVAQWCGSYRPEPAIQSIKTDVHSPKRVLSQNLAAFPADTFHCARGTPMH-PKER 775
Qy      746 CRUM 749
Db      776 CRVM 779

RESULT 2
US-10-147-928-6
; Sequence 6, Application US/10147928
; Publication No. US20030180877A1
; GENERAL INFORMATION:
; APPLICANT: SOLVAY PHARMACEUTICALS B.V.
; TITLE OF INVENTION: No. US20030180877A1 Human Enzymes of the Metalloprotease Family
; FILE REFERENCE: SPM 99.09 /H 99.26-WO
; CURRENT APPLICATION NUMBER: US/10/147,928
; CURRENT FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 6
; LENGTH: 753
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-147-928-6

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Query Match      34.2%; Score 1352; DB 12; Length 753;
Best Local Similarity 38.4%; Pred. No. 1.2e-117;
Matches 293; Conservative 153; Mismatches 274; Indels 44; Gaps 18;

Qy      9 VENGKXNR-----GTRIALVVGGLTGLTIIPIVSGGLISQAKOEKCLKRECE 61
Db      11 VESGRGQGRPGFLEGLILLILLYALVALGVLADRRGLPRAQVSEVCTTGCYI 70
Qy      62 AAAALISKVNLSDPCDNFFRACDGMISNNPIPEDMPSYGVYPMIRHNVDLKLKELLK 121
Db      71 AAARILQNDMPTEPCDDFYQFACGGLRHHVLPETNSRYSIPDVJRDLEVLILKAVLEN 130
Qy      122 SISRRTTEALOKAKILYSSCMNEKALEKADAKPLHLIIRHSFPRWPLESNTGPGWVS 181
Db      131 STA-KDPAVERKARTLYRSCMNSQVTEKGSQPLDIL-EVVGGMVAMDR-----WN 181

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Qy      182 ER--KESLLQTLATFPGQYNSVFIRLYVSPDDKASNEHILKLDQATLSLAVREDYLDN 238
Db      182 ETVGLSELEBQALAMNSQRRRLVLDLFIWMDQNSRHIIYIDPGLGMPREYFNG 241
Qy      239 STEAKSRDALYKRMVDTALL--GANSR-----AEDMSVLRLEKIAWIPHENRT 292
Db      242 GSNRK-VREAYLQFMVSVATLLREDANLPRDSCLYQEDMMEELVLELTQAKAVPOBERH 300
Qy      293 SE-AMYNKNISELSAM--IPQDWLGVIKKVIDRLYPH-K-DIPSENVVVRVQYFK 348
Db      301 DVIALYHRNGLEBLOSQFGKGFNWLFIQTWLS-----VKIKLPDEEVVYVGIPLYQ 355
Qy      349 DLFIILSEKRTIANYLVWVYSRIPNLSRPPQTRMLEPSKVIQTTLLPQMDKCN 408
Db      356 NLENIIDTYSARTIQNYLVWRLVLDRIIGLSQRFKOTRYVRYRALFGTMVEYKMECEGV 415
Qy      409 FIESALPYVVGKMFVVDVYQEDKEMMEELVGVVMAFIDMLEKENEMWDAGTKRKAKEK 468
Db      416 YVSNMENAAGSLYVRAAFPGDSKSWRELIDKRVTFVEVLID-ELGMDDESKKAQEK 474
Qy      469 ARAVLAVGYPEFIMNDTH--VNEDKALFSEADYFGNVLQTRKYLQSDPFWMLKRAVP 526
Db      475 AMSIREQIGHPDYILEEMNRRLDEBSNINFSEDLYFENSLOWLKVGQKSLRKLEKVD 534
Qy      527 KTEFPTNPTVNAFYASASTNQIRPAGELQKPFMGTEYRSLSYGALGVIYGHFTHGF 586
Db      535 PNLMITGAAYVNAFISPNRQIVFPAGIILQPPFF-SKEQCALNFGIGMVGHEITTHGF 593
Qy      587 DNNRKYDKXGNDLPMWSTSEBEKFEKTKCMINOYSNYWKAG-LNYGKRTLGENTL 645
Db      594 DNNRNDPKXGNDMWSNFTQHFRQSECMITQYGNYSWDLADQONVGFNTLGENI 653
Qy      646 DNGLEAREAFYRKYINDRQGLEBPLFGITFTNNQLFSLYAHYRCSYRPEAREV 705
Db      654 DNGVQAYKAYLKM--AEGKQQLPGLDLTHEQLFPINVAQWCGSYRPEPAIQSI 710
Qy      706 QIGASHPPQFVNGAISNSEBFOKAFNCPNSTNRGMSCRUM 749
Db      711 KTDVHSPKRVLSQNLAAFPADTFHCARGTPMH-PKERCVM 753

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RESULT 3
US-10-147-928-4
; Sequence 4, Application US/10147928
; Publication No. US20030180877A1
; GENERAL INFORMATION:
; APPLICANT: SOLVAY PHARMACEUTICALS B.V.
; TITLE OF INVENTION: No. US20030180877A1 Human Enzymes of the Metalloprotease Family
; FILE REFERENCE: SPM 99.09 /H 99.26-WO
; CURRENT APPLICATION NUMBER: US/10/147,928
; CURRENT FILING DATE: 2002-05-20
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 4
; LENGTH: 779
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-147-928-4

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Query Match      33.7%; Score 1333.5; DB 12; Length 779;
Best Local Similarity 39.2%; Pred. No. 7e-116;
Matches 284; Conservative 145; Mismatches 258; Indels 37; Gaps 17;

Qy      42 QGLSLQAKQCYCKEPCIEAAAAILSKVNLSDPCDNFFRACDGMISNNPIPEDMPSY 101
Db      77 RGIPEADQVSEVCTTPECCVIAAAILQNDMPTEPCDDFYQFACGGLRHHVLPETNSRY 136
Qy      102 GYVFWLHNVLDLKLKELLKXISRRPDTALOKAKILYSSCMNEKALEKADAKPLHLIIR 161
Db      137 SIPVLDLEVLILKAVLENSTA-KDPAVERKARTLYRSCMNSQVTEKGSQPLDIL- 193
Qy      162 HSPFRWPLESNTGPGWVSER--KESLLQTLATFPGQYNSVFIRLYVSPDDKASNEH 218

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Db 194 EVVGWPMVAMDR-----WNETVGLJEWELEROLALMNSQFNRRLIDLFIMNDONSSRH 247

Qy 219 ILKDOATLSAVREDYLDNSTEAKSYDALYKENVDTAVLL--GANSR-----AEHDMK 272

Db 248 IITYDQPTLGMPSREYFNGSNRK-VREAYLQFVSVATLREDANLPRDSCLVQEDMW 306

Qy 273 SVLRLEIKIAELIMI PHENRTSE-AMYNKNI SELSAM--IPQDWLG YIKKVIDTRLYPH 329

Db 307 QVLELETOAKATVQOEERHDVIALYHMGLEELQSGGLKGFMTLFIQVTLSS-----361

Qy 330 LK-DISPENYVVRVPOYFKDLFRILGSEKKTIANLYVMVYSRIENLSRRPQRYMLE 388

Db 362 VKIKLPEEEVVVYGIPTLQNLNIDYSAFTIQNYLWMLVLDRLGSLQRFKOTRYN 421

Qy 389 FSRYIQTITLLPQMDKCVNFIESALPYVGMFVDVYFOEDKEMMEELVEGYRMAFID 448

Db 422 YRKALFGTVEVRRECVGYVNSMENAVGSLYVREAFPDGSKSMVRELIDKRTVFE 481

Qy 449 MLEKENEMDAGTKKAKAKARAVLAKGYPEFIMNDTH--VNEDLKAIKSEADYRGV 506

Db 482 TLD-ELGWMDESKKKAQEKAMSIREQIGHDYILLENNRRLDEYSNLNFSSEDLYFENS 540

Qy 507 LOTRYKLAQSDPFMLRKAVPKTEWFTNPTVNAFYASATNOIRPAGELQKPFEGTEYP 566

Db 541 LQNLKVGQRSLRKLRKRVDPNMLTIGAAYVNAFSPNRQIVFPAGILQPF--SKQCP 599

Qy 567 RSLSYGALGIVVGEHFTGPDNGKRYDKNGNLDPMWSTSEBEKFKETKCMINOYSNY 626

Db 600 QALNFGGIGMVGHEITGPDNGRNPDKNGMMDWMSNFSQHFREOSCMYQYGVNS 659

Qy 627 WKKAG-LNVKGRKTGENIADNGLRBAFRAYRKMINDRQGLBEPLPGITFTNOLFF 685

Db 660 WDLADEQVNGFNLTGENIADNGVRQAYKAYLKM--AEGGDQQLPGILDTHQLFF 716

Qy 686 LSYAHVRCNSYRPEARABQVOIGAHSPQFVNGAISNSEBFQKAFNCPNSTNRGMS 745

Db 717 INYAQWCGSYRPEFAIQSIKTVDHSPKRYVLSLQNLAAFDTFHCARGTPMH-PKER 775

Qy 746 CRLW 749

Db 776 CRW 779

RESULT 4

US-09-905-846-2

Sequence 2, Application US/09905846

Patent No. US20020102707A1

GENERAL INFORMATION:

APPLICANT: Ian Dennis Harrow

APPLICANT: Peter Stacey

APPLICANT: Roderick Thomas Walsh

TITLE OF INVENTION: Compounds for the treatment of sexual dysfunction

FILE REFERENCE: PCS10926APME

CURRENT APPLICATION NUMBER: US/09/905, 846

PRIOR FILING DATE: 2001-07-13

PRIOR APPLICATION NUMBER: 0017387.2

PRIOR FILING DATE: 2000-07-14

PRIOR APPLICATION NUMBER: 60/220,908

PRIOR FILING DATE: 2000-07-26

NUMBER OF SEQ ID NOS: 8

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 2

LENGTH: 779

TYPE: PRT

ORGANISM: Homo sapiens

US-09-905-846-2

Query Match 33.7% Score 1332.5; DB 10; Length 779;

Best Local Similarity 39.2%; Pred. No. 8.7e-116;

Matches 284; Conservative 145; Mismatches 258; Indels 37; Gaps 17;

Qy 42 QGLSLQAKQRYCKPCEICAAALSKVNLSDPCNFRFACDGMISNNPIEDMPSY 101

Db 77 RGIPEAQVSEVCTTGGCVIAAARILQNMDDPTTEBDDPYOFACGGMRLRRHVETNSRY 136

Qy 102 GYVPMLRHVVDLKLKELKESISRREDTEALOKALITYSSCINBAIKAKADAKPLHLIR 161

Db 137 SIFVDLRDELIVLQAVLENSTA--KDRPAVKAATLRSQMGNSVITKRSQPLDILL- 193

Qy 162 HSPFMPVLESNIGEGWMSR--KFSILQTLATFRQYNSVFIKLYSPDDKASNEH 218

Db 194 EVVGWPMVAMDR-----WNETVGLJEWELEROLALMNSQFNRRLIDLFIMNDONSSRH 247

Qy 219 ILKDOATLSAVREDYLDNSTEAKSYDALYKENVDTAVLL--GANSR-----AEHDMK 272

Db 248 IITYDQPTLGMPSREYFNGSNRK-VREAYLQFVSVATLREDANLPRDSCLVQEDMW 306

Qy 273 SVLRLEIKIAELIMI PHENRTSE-AMYNKNI SELSAM--IPQDWLG YIKKVIDTRLYPH 329

Db 307 QVLELETOAKATVQOEERHDVIALYHMGLEELQSGGLKGFMTLFIQVTLSS-----361

Qy 330 LK-DISPENYVVRVPOYFKDLFRILGSEKKTIANLYVMVYSRIENLSRRPQRYMLE 388

Db 362 VKIKLPEEEVVVYGIPTLQNLNIDYSAFTIQNYLWMLVLDRLGSLQRFKOTRYN 421

Qy 389 FSRYIQTITLLPQMDKCVNFIESALPYVGMFVDVYFOEDKEMMEELVEGYRMAFID 448

Db 422 YRKALFGTVEVRRECVGYVNSMENAVGSLYVREAFPDGSKSMVRELIDKRTVFE 481

Qy 449 MLEKENEMDAGTKKAKAKARAVLAKGYPEFIMNDTH--VNEDLKAIKSEADYRGV 506

Db 482 TLD-ELGWMDESKKKAQEKAMSIREQIGHDYILLENNRRLDEYSNLNFSSEDLYFENS 540

Qy 507 LOTRYKLAQSDPFMLRKAVPKTEWFTNPTVNAFYASATNOIRPAGELQKPFEGTEYP 566

Db 541 LQNLKVGQRSLRKLRKRVDPNMLTIGAAYVNAFSPNRQIVFPAGILQPF--SKQCP 599

Qy 567 RSLSYGALGIVVGEHFTGPDNGKRYDKNGNLDPMWSTSEBEKFKETKCMINOYSNY 626

Db 600 QALNFGGIGMVGHEITGPDNGRNPDKNGMMDWMSNFSQHFREOSCMYQYGVNS 659

Qy 627 WKKAG-LNVKGRKTGENIADNGLRBAFRAYRKMINDRQGLBEPLPGITFTNOLFF 685

Db 660 WDLADEQVNGFNLTGENIADNGVRQAYKAYLKM--AEGGDQQLPGILDTHQLFF 716

Qy 686 LSYAHVRCNSYRPEARABQVOIGAHSPQFVNGAISNSEBFQKAFNCPNSTNRGMS 745

Db 717 INYAQWCGSYRPEFAIQSIKTVDHSPKRYVLSLQNLAAFDTFHCARGTPMH-PKER 775

Qy 746 CRLW 749

Db 776 CRW 779

RESULT 5

US-10-192-407C-2

Sequence 2, Application US/10192407C

Publication No. US20040014131A1

GENERAL INFORMATION:

APPLICANT: Pfizer Inc.

APPLICANT: Neil Benson

APPLICANT: Helen Frances Boyd

APPLICANT: Leonard Gabriel Contillo

APPLICANT: David Harlan Singleton

APPLICANT: Peter Stacey

TITLE OF INVENTION: Assay Methods

FILE REFERENCE: PCS2036ANIS

CURRENT APPLICATION NUMBER: US/10/192,407C

PRIOR FILING DATE: 2002-07-09

PRIOR APPLICATION NUMBER: US 09/948,429

PRIOR FILING DATE: 2001-09-07

PRIOR APPLICATION NUMBER: GB 0017387.2

PRIOR FILING DATE: 2000-07-14

PRIOR APPLICATION NUMBER: US 09/905,846

PRIOR FILING DATE: 2001-07-13

PRIOR APPLICATION NUMBER: US 60/220,908

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; PRIOR FILING DATE: 2000
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn verson
; SEQ ID NO 2
; LENGTH: 779
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-192-407C-2

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Query Match	33.7%;	Score 1332.5;	DB 12;	Length 779;
Best Local Similarity	39.2%;	Pred. No. 8.7e-116;		
Matches 284;	Conservative 145;	Mismatches 258;	Indels 37;	Gaps 17;

[illegible]

```

APPLICANT: Van Der Graaf, Pieter H
APPLICANT: Wayman, Christopher P.
TITLE OF INVENTION: Treatment of Male Sexual Dysfunction
FILE REFERENCE: PC22013
CURRENT APPLICATION NUMBER: US/10/017,273A
CURRENT FILING DATE: 2001-12-12
PRIOR APPLICATION NUMBER: US 60/265,358
PRIOR FILING DATE: 2001-01-31
PRIOR APPLICATION NUMBER: GB 0030647.2
PRIOR FILING DATE: 2000-12-15
PRIOR APPLICATION NUMBER: GB 0108730.3
PRIOR FILING DATE: 2001-04-06
PRIOR APPLICATION NUMBER: GB 0120679.6
PRIOR FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: US 09/905,846
PRIOR FILING DATE: 2001-07-13
PRIOR APPLICATION NUMBER: US 60/291,722
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 09/895,367
PRIOR FILING DATE: 2001-06-29
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 779
TYPE: PRT
ORGANISM: Homo sapiens
US-10-017-273A-6

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Query Match	33.7%;	Score 1332.5;	DB 15;	Length 779;
Best Local Similarity	39.2%;	Pred. No. 8.7e-116;		
Matches 284;	Conservative 145;	Mismatches 258;	Indels 37;	Gaps 17;

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OY      42  QGLSLQAGQEXCLMBECIBAAAALISLVNLSVPCNFFACDGNISNNPPEDMPSY  101
D6      77  RGLPBAQZSEVCTTPGCYTAAARLQNMDDPTTEPCDDFYQACGGLRRHVLPETMSRY  136
OY      102 GYVFWLRENVDTKLKELLBKSJSRREDTEBAIQAKATLYSSGCMNEKAIEKADAPELLHLIR  161
D6      137 SIFDVLRLDELEVLKAVLIENSTJA--KORPAVEKARTLYRSQMGNSVIEKRGSGELDIL-  193
OY      162 HSEFRFPVLESINIGBQWMSR--KSELLOTLATFRQYQNSVFIITLYSPDDKASNEH  218
D6      194 EYVGCFVPMADR-----WNEVTGLEWELEBQQLALMSQFRRRLVLDLFIMNDQSSRH  247
OY      219 ILLDQATSLVREDYLDNSTEAKSYADALYKFMVDTAVLL--GANSR-----AEHDK  272
D6      248 IITIDPPTGMSREYTFNGSGSNK-VREATLOFMVSATILIRDALPDDSCLYQEDMY  306
OY      273 SVLRLEIKIAZIMIPHENTSE-AMYNKONISELSAM--IPQDWLGIYKKVITDLRYPH  329
D6      307 QVLELETOAKXTVPQEBRHDTALYHMGLEBLOSQGLGFWMTLFIQVULSS-----  361
OY      330 LR-DISPSENVYVRQYQKDLFRILSEBKKITANLIVWQMSYSRIPNLSRPQYKMLE  388
D6      362 VKKLPLDBERVVYGIPTLONLBNTIDYSAITONYLWMLVYDRIGSJSQKQDTRVN  421
OY      389 FSRVIOGTTLTLPQMDKCVNFIESALPYVQKMFEDVYFOCDKXEMBEIYEGVYMAFID  448
D6      422 YRRALRGTVABERVRRECVCYVNSMNEAASGLYVREAFPDSDKSMVRELLDKRTYFVE  481
OY      449 MLEKENEMWDACTKQKAKERAPAVLAKVGYEPFINWDTH--VNEDLAKIYFSEADYFNV  506
D6      482 TLDP-ELGMMDBESKTKKQAKEMASIEBOIGHDPYILLENNRRLDEEYGNLNFSELDYFENS  540
OY      507 LQTRKTLAOSDPFWMLRKAVPKTEWEPNTNPTNAPFASATNOIRPAGELQKPFWGTETYP  566
D6      541 LQWLKATGAQPSRKLEKAVDPVLMITIGAAYNAFISFRNODIYFPAGILOPPFF--SEQP  599
OY      567 RSLSYGALIGVYGHETTFGDNNGKRYDNGNLDPWMSSTSEBKFKEKTKCMINQSYNY  626
D6      600 QALNPGGIGMVIQHEITGFDQNGNPNQNGMMDWMSNFPSTQGFRRSECCMIYQYNGYS  659
OY      627 WKQAG-LANYKGRITGENIADNGCLREAFYARKVINDRQGLEBELLPGITFNNQOLF  685

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Db 660 MCLAEONVNGNTTGENIADNGVROAYKALXNM---AEGCKOQPLGDLTHEQLF 716
Qy 686 ISYAHVRCNSYRPEARAEQVQIGASHPPQFRVNGAISNSEFQKAFNCPNSTMNRGDS 745
Db 717 INYAQVWGSGYRPEARAIQSIKTVDHSPKRYVLSGLQMLAFAADTHCARGTPMH-PRER 775
Qy 746 CLM 749
Db 776 CRVM 779

RESULT 7

US-10-147-928-2
Sequence 2, Application US/10147928
Publication No. US20030180877A1
GENERAL INFORMATION:
APPLICANT: SOLVAY PHARMACEUTICALS B.V.
TITLE OF INVENTION: No. US20030180877A1 Human Enzymes of the Metalloprotease Family
FILE REFERENCE: SPW 99.09 /H 99.26-WO
CURRENT APPLICATION NUMBER: US/10/147,928
CURRENT FILING DATE: 2002-05-20
NUMBER OF SEQ ID NOS: 31
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 2
LENGTH: 691
TYPE: PRT
ORGANISM: Homo sapiens
US-10-147-928-2

Query Match 33.4%; Score 1322.5; DB 12; Length 691;
Best Local Similarity 39.5%; Pred. No. 6.3e-115;
Matches 281; Conservative 143; Mismatches 251; Indels 37; Gaps 17;

Qy 54 CLKPECIEAAAAISKNLVSDPCNFFRACDGTISNNPIPEDMPSGYVTPMIRANVDL 113
Db 1 CTPPCVIAAAAILQMDPTTEPCDDFYQACGGLRRHVIPETNSRSIFDVLRDELAV 60
Qy 114 KLEKLEKSISSRRDTEAIOKAKILYSSCMKEKAEKADAKPLHILHSPFRPVLESN 173
Db 61 ILKAVLENSIA--KORPAVEKAKITLYRSCNQSVEKGSQPLDIL-EVVGMPVAMDR 117
Qy 174 IGPESVSEER--KESLIQTATFFGQYSNVFIRLYVSPDKASNEHILKDAQTSLSA 230
Db 118 -----WNEIVGLEWELERKOLALMNSQFNRRVLDLFTWMDQSSRIIYIDPFTIGMP 171
Qy 231 VREDYLDNSTEAKSYRADLYKFMVDTAVTL--GANSR-----AEHDKSVLRLEIKIARI 284
Db 172 SREYVFNQSNRK-VREAYLOPMVSATILKEDANLPDSCLCVQEDMQVLELETQAKA 230
Qy 285 MIPHEINTSE-AMYNKMISELISAM--IPQPMIGYIKRVIDTRLYPHLK-DISSENVY 340
Db 221 TVPQERHADVIALYHRMGLLELOSQGLKGFNWLFIQTVLS-----VKIKLIDREBV 285
Qy 341 VRVPGYFNDLRRILGSEKKTILANLYRMVYSRIPNLSRRQYRMLSEFSVIOGTTTL 400
Db 286 VYGIYVYLNLENITITYSARITQNTLVRLVLDRIQSGISQPKOTRANVRALGTVWEE 345
Qy 401 PQMDKCNVIFESALFYVVGKMFVDVYFQEDKKEMMELVEGKRAVAFIDMLEKENEMDAG 460
Db 346 VWRRECVCYVNSNMENAVGSLYVREAFPGDSKSVRELIDKVRATVFVETLID-ELQWMDER 404
Qy 461 TKRKAKEKAAVLAIVGYPEFIMNDTH--VNEDLKATFESADYFQNVLTQRTKLAOSDF 518
Db 405 SKKKAQOEAMSTIREQIGHPDYILEMNRRLDEEYSNNLFSDDLFFENSLQMLKGAQRSL 464
Qy 519 FWLRKAVETWFTPTTVNAFYASASTQNIIRFPAQELQKPFNGTEYPRISLYAGIVY 578
Db 465 RLKREKVDPNMIIIAAVNAFYSGNRQYIVFPAQIIQPFV-SKEQQAALNFGIGMVI 523
Qy 579 GHEFHFGDNNGRKIDKAGNLDPMWSTSESEKFEKTKCMINQISNTYKAKG-LANYKX 637
Db 524 GHEITHGDDNGRNDKNGNMWMSNPSIOHFRQSECMITQYQNGYSWDLADEQNVNGF 583

Qy 638 RTUGENIADNGGLREAFRAVRKWINDRQGLEPILPGITFNNQLFSTYAHVRCNSYR 697
Db 584 NTLGGINIADNGVRQAYKALXNM---ABGCKOQPLGDLTHEQLFINYAQVWGSGYR 640
Qy 698 PEARAEVQIGASHPPQFRVNGAISNSEFQKAFNCPNSTMNRGDSCLM 749
Db 641 PEARAIQSIKTVDHSPKRYVLSGLQMLAFAADTHCARGTPMH-PRERCRVM 691

RESULT 8

US-10-274-639-13
Sequence 13, Application US/10274639
Publication No. US20030232349A1
GENERAL INFORMATION:
APPLICANT: INCYTE GENOMICS, INC.
APPLICANT: DELGEMANE, Angelo M.; GANDHI, Ameena R.
APPLICANT: HAFALIA, April J.A.; LU, Dzung Aina M.
APPLICANT: PATTERSON, Chandra; TRIBOUTLEY, Catherine M.
APPLICANT: DAS, Debopriya; KALICK, Deborah A.
APPLICANT: NGUYEN, Daniel B.; LEE, Ernestine A.
APPLICANT: KHAN, Farrah A.; YUE, Henry
APPLICANT: AU-YOUNG, Janice K.; GRIFFIN, Jennifer A.
APPLICANT: POLICKY, Jennifer L.; RAMKUMAR, Jayalekshmi
APPLICANT: YANG, Junming; THANGAVELU, Kavitha
APPLICANT: BAUGHN, Mariah R.; BOROMSKY, Mark L.
APPLICANT: SANJANMALA, Madhusudan M.; YAO, Monique G.
APPLICANT: BURFORD, Neil; WALIA, Narinder K.
APPLICANT: LAL, Preeti G.; LEE, Sally
APPLICANT: TODD, Stephen; LO, Terence P.
APPLICANT: TANG, Y. Tom; ELIOTY, Vicki S.
APPLICANT: AZIMZAI, Yalda; LU, Yan
TITLE OF INVENTION: PROTEASES
FILE REFERENCE: PI-0167 USA
CURRENT APPLICATION NUMBER: US/10/274,639
CURRENT FILING DATE: 2002-10-18
PRIOR APPLICATION NUMBER: PCT/US01/22397
PRIOR FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: US 60/220,063
PRIOR FILING DATE: 2000-07-21
PRIOR APPLICATION NUMBER: US 60/221,680
PRIOR FILING DATE: 2000-07-28
PRIOR APPLICATION NUMBER: US 60/223,544
PRIOR FILING DATE: 2000-08-04
PRIOR APPLICATION NUMBER: US 60/224,717
PRIOR FILING DATE: 2000-08-11
PRIOR APPLICATION NUMBER: US 60/225,988
PRIOR FILING DATE: 2000-08-16
PRIOR APPLICATION NUMBER: US 60/227,568
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 42
SOFTWARE: PERL Program
SEQ ID NO 13
LENGTH: 742
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US20030232349A1 7473165CD1
US-10-274-639-13

Query Match 33.4%; Score 1321; DB 12; Length 742;
Best Local Similarity 38.2%; Pred. No. 9.7e-115;
Matches 232; Conservative 153; Mismatches 273; Indels 46; Gaps 20;

Qy 9 VETGKKAAR-----GTITALVVFVGGTILVGTILFVSQGLSLQAKQEVCLNPRECIE 61
Db 2 VESAGSAGGKRRGFLBGLLLLLLVTAALVALVADRRQIPRAQSVSYCTTPGCVI 61
Qy 62 AAAAILSKNLVSDPCNFFRACDGTISNNPIPEDMPSGYVTPMIRANVDLKLKLEK 121
Db 62 AAARILQNDPTTEPCDDFYQACGGLRRHVIPETNSRSIFDVLRDELAVLKAIVEN 121

QY 122 SISRRTDEAIOXAKILYSSCMEKEIAKADAPLHLIRHSPFWPVLSENIIGEGWVS 181
D 122 STA--KDRPAVEKAFILYSCKMOSVIEKSGQPLDIL-ETVGGPVMADR-----WN 172
QY 182 ER---KPSLIQTLATRGQVNSVFRIRYVSPDDKXSNHILKLDQATLSLAVREDYLDN 238
D 173 ETYGLMELEKROLAMNSOPNRRLIDLFWMDQSSHHIYIDPFLGMPSSREYFNG 232
QY 239 STEAKSYRDLVYKPNVDTAVL--GANSR---AEDMKSVLRLEIKIAEIMPHENKT 292
D 233 GSNRK-VREAYLOFNVSVATLREDANLPDSCVLQGEDWVQVLELQAKATVQBERH 291
QY 293 SE-AMNKNMISLSAM--IFQDMLGYIKVYDITLYPHLK-DISPSNNVYVRPQYK 348
D 292 DVIALYHRGLELOQFGKGFNMWTLFIQTVLS-----VKKLILDEEVVYGIPIQ 346
QY 349 DLFRIIGSEKRTIANYLVWVYSRIPNLSRRFQYRMLFGRVIGQTTLLPQMDKVN 408
D 347 NLNIIIDYIARTIQVYLWRLVLDIGLSQCFKOTRYNKAFLGTMVEEVRRECVG 406
QY 409 FTSALPYVYGVKFDVYFOEDKKEEMELVSGVMAFIDMLEKENEMDAGTKRAXEK 468
D 407 YVNSNMENAVGSLYVEAEAFPGDSKSV-ELIDKVRVFEETLD-BLGWMDSESKKKAQEK 464
QY 469 ARAVLAKVGEYEFIMNDTH--VNEDLKAIKFSADYFGVLOTCKYLAQDFPWLKXVP 526
D 465 AMSIRQIHPDYLLENNRRDLDEYSNNFSDLYFENSLOMLKGAQSRSLKREKV- 523
QY 527 KTEWFTPTTVNAFYASATNOIRFPAGELQKPFQWGTBYRSLSYAGIVIGHEFTGPF 586
D 524 DPLIIGAAVYVAFPNRNOIVFPAGIILQPPFF-SKEQPOLNFGIGIMVIGHEITGPF 582
QY 587 DNNGRKVDKNGNDPKNWSESEKEXKTKCMINOVSNNYMKAG-LYNGKRTIGENIA 645
D 583 DDNGRPFDKNGNDWMSNFTSHFRQSCMTYQIGNSWDLADQONNGNTIGENIA 642
QY 646 DNGLEAFARAYKRWINDRQGLEBPLPQITFTNNQLEFSLYAHVRCNSYRPEARBOV 705
D 643 DNGVRAQAYKAYKWM--AEGKDOQLPGLDITHTHQLFFINVAQWGSYRPEFALQSI 699
QY 706 QIGASPPORVNGAISNSEFOKAFNCPNSNMRGMSCLM 749
D 700 KDVHSPKXKRVGLSLQNLAAFPDTHCARGPMM-PKERCWV 742

RESULT 9
US-09-978-295A-526
Sequence 526. Application US/09978295A
Patent No. US2002015606A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Flivarov, Ellen
APPLICANT: Gao, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerltsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Nadler, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann

APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: P2630P1C11
CURRENT APPLICATION NUMBER: US/09/978, 295A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334

PRIOR FILING DATE: 1998-04-01
 PRIOR APPLICATION NUMBER: 60/081070
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/081049
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/081071
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/081195
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/081203
 PRIOR FILING DATE: 1998-04-09
 PRIOR APPLICATION NUMBER: 60/081229
 PRIOR FILING DATE: 1998-04-09
 PRIOR APPLICATION NUMBER: 60/081955
 PRIOR FILING DATE: 1998-04-15
 PRIOR APPLICATION NUMBER: 60/081817
 PRIOR FILING DATE: 1998-04-15
 PRIOR APPLICATION NUMBER: 60/081819
 PRIOR FILING DATE: 1998-04-15
 PRIOR APPLICATION NUMBER: 60/081952
 PRIOR FILING DATE: 1998-04-15
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Query Match 30.9% Score 1223; DB 10; Length 736;
 Best Local Similarity 35.2%; Pred No. 1.6e-105;
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 67 TEACIRVAGKILIESIDRVVSPCEDPYOPSCGWMIRRNLPGRSRMNTFNSLMDONAIL 126
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 176 P---EGWSEKSEKSLQTLATFRGOYSVTRLYVSPDDKASNEHLIKDQATLSIAVR 232
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 ; APPLICANT: Ashkenazi, Avi
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 ; APPLICANT: Desnoyers, Luc
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 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
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 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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 DB 127 KHLLENT-TFNSSSEBQKTQRFYLSQVETSEELGAPLADL-----EKIG 174
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 DB 175 GWNITGPMQDNF--MEVLKAVAGTYRAPTPFTVYISADSKSSNNGVIOVQSGFLFSR 232
 QY 233 EDYLNSTAKSYROLAKFMDTAVILGANSRREHMKSVLRLEIKIAEMIPH-ENR 291
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 DB 699 SPARFRVLGTLNSRDFLRHFGCFVGSPPMNPQ-QLCEVW 736
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 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnovers, Luc
 ; APPLICANT: Eaton, Dan
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 APPLICANT: Stewart, Timothy A.
 APPLICANT: Thums, Daniel
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
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 CURRENT FILING DATE: 2001-10-15
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/ PRIOR FILING DATE: 1998-05-07
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/ PRIOR FILING DATE: 1998-05-15
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/ PRIOR APPLICATION NUMBER: 60/085579
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085580
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085573
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085704
/ PRIOR FILING DATE: 1998-05-15
/ PRIOR APPLICATION NUMBER: 60/085697

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Query Match 30.9%; Score 1223; DB 10; Length 736;
Best Local Similarity 35.2%; Pred. No. 1.6e-105;

Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

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QY 2 EAETGSSV-ETGKARKGRTRIAL-VYFVGTVLGTILF-LVSGQL-LSLQAKQRYCL 55
DB 7 ELGAGSNVGFQKTRQLGSRTOLELVAGSLILALLGCLVALGVQHRDPSHSTCL 66
QY 56 KPECTEAAALISKVNLSDPCDNFFRACDGMISNNPIEDMSYGVYWLKHNVDKL 115
DB 67 TEACIRVAGKLESLEDGVSCEDFYQPCGGMIRNPLPDGRSMTFNSLMDONAIL 126
QY 116 KELLKESISRRRDTEALOKAILYSSCMNEKAIEKADAKPLHLIRASPRMVLIESNIG 175
DB 127 KHLLENT-TENSSEAEKQTRFLSLCQYERIELEGAQPLRDI-----EKIG 174
QY 176 P---EGVMSKSEKSLQTLATFRQYNSVFIKLYPDDKASNEHLIKLDOATLSAVR 232
DB 175 GWNITGPDQDNF--MEYLAQVAGTYRATPFYIYISADKSSNSNYIVDQGLFLPSR 232
QY 233 EDYLDNSTEAKSYDALYKFMVDTAVLLGANSSPAEDKMSVLEIKIKIMIPH-ENR 231
DB 233 DYVL-NTANAKVLAVIDYMEELGMLLGGPSTRBQOVLELEQLANTIVPDQQR 231
QY 292 TSEAMNKNMISELSAMIPQFDMLGYIKVYIDRLYLHLKDISESNVVRVPOYFEDLF 351
DB 292 DEEKIYKMSISELQALAPSMWDEFLSLSP-----LELSSEVVVYVGMVYQOVS 345
QY 352 RIISERKKTANTYVWMVYSRIPLTSRROYWLEFSVNIQOT-TTLIPQMDKCNFL 410
DB 346 ELIIRTEPSIANTYVLMVYOKTSSIDRRPESQOEKLETLIVGTKSCVPRNQTCSNT 405
QY 411 ESALPYVVGKATFVYVQEDKXEMMELVEGVNAPFLDMEKENEMWDACTKAKAKAR 470

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DB 406 DDALGFLGSLFYKATFDRQSKXIABGMSIBIRTAFEAL-GOLVWDEKTRQAAKEXAD 464
QY 471 AVLAKEYEPEFINMDHNHVEDLKATFESADYFGVNLQVRKTLAOSDFWMLAKAPKIEW 530
DB 465 AYDMIGFPPFLEPELDDVDGHEISDSFQNNLNYNSAKVMADQLKPPSRDQW 524
QY 531 FNPPTVNAFYASASTQIRFPAGELOKPPFMCLEYPRSLSYGALIGVIGHEFTGPDNG 590
DB 525 SMTPTVNAVYLPTKBIYVPAIGILLAPFY-ARNHPKALNFGIGVGMGHELTTHAFDDQ 583
QY 591 RKYDRNGINDPWWSTSEKFEKTKCMNQSNYYKKAAGLVKCKTLGENTIDNGEL 650
DB 584 REYDKGNIRPWWQNESLAFRNHTACMEBOYNOY--QVNGERLNGRQTLGENTIDNGEL 641
QY 651 REAFRAYRKINDRQGLEPPLPGITFTNNQLPFLSYAHVCNSYRPEAREYOIGAH 710
DB 642 KAAVNAVKAML--RKHG-BEQQLPAVGLNHLDFVGFAGVQWCSVTPRESSBGLVTPDH 698
QY 711 SPQFRVNGALINSSEFQAFNCPPNSTMNRQMSCLM 749
DB 699 SPARFVIGTILSNRDLFHLHFGCPVGSPPNPG-QLCEVW 736

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RESULT 12

US-09-999-832A-526

Sequence 526, Application US/0999832A

Publication No. US20020192706A1

GENERAL INFORMATION:

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/ APPLICANT: Ashkenazi, Avi
/ APPLICANT: Baker Kevin P.
/ APPLICANT: Botstein, David
/ APPLICANT: Desnoyers, Luc
/ APPLICANT: Eaton, Dan
/ APPLICANT: Ferrara, Napoleon
/ APPLICANT: Filvaroff, Ellen
/ APPLICANT: Fong, Sherman
/ APPLICANT: Gao, Wei-Qiang
/ APPLICANT: Gerber, Hanspeter
/ APPLICANT: Geritsen, Mary E.
/ APPLICANT: Goddard, Audrey
/ APPLICANT: Grimaldi, Paul J.
/ APPLICANT: Gueney, Austin L.
/ APPLICANT: Hillan, Kenneth J.
/ APPLICANT: Kljavin, Ivar J.
/ APPLICANT: Kuo, Sophia S.
/ APPLICANT: Napier, Mary A.
/ APPLICANT: Pan, James
/ APPLICANT: Paoni, Nicholas F.
/ APPLICANT: Roy, Margaret Ann
/ APPLICANT: Shelton, David L.
/ APPLICANT: Stewart, Timothy A.
/ APPLICANT: Tumas, Daniel
/ APPLICANT: Williams, P. Mickey
/ APPLICANT: Wood, William I.
/ TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
/ FILE REFERENCE: P2630PIC63
/ CURRENT APPLICATION NUMBER: US/09/999,832A
/ PRIOR FILING DATE: 2001-10-24
/ PRIOR APPLICATION NUMBER: 09/918585
/ PRIOR FILING DATE: 2001-07-30
/ PRIOR APPLICATION NUMBER: 60/062250
/ PRIOR FILING DATE: 1997-10-17
/ PRIOR APPLICATION NUMBER: 60/064249
/ PRIOR FILING DATE: 1997-11-03
/ PRIOR APPLICATION NUMBER: 60/065311
/ PRIOR FILING DATE: 1997-11-13
/ PRIOR APPLICATION NUMBER: 60/066364
/ PRIOR FILING DATE: 1997-11-21
/ PRIOR APPLICATION NUMBER: 60/074450
/ PRIOR FILING DATE: 1998-03-10
/ PRIOR APPLICATION NUMBER: 60/077632

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[illegible]

PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 30.9%; Score 1223; DB 10; Length 736;
Best Local Similarity 35.2%; Freq. No. 1,66-105;
Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

2 EAETGSSV-ETGKXNRGRIAL-VVFGGTLVGLTF--LYSQGL-LSLQAKQCYC 55
7 ELGAGSNVGFQKGRQLLSRTQLELVLAGASLLALLGCVLALGVQHRDPSHTCL 66
56 KPECEAAALISKNNLSVPCDNFFRACGMISNNPIEDMPSYGVVFWLRNVDLKL 115
67 TEACIRVAGKILIESIDRGVSPCEDEFYQFSCGGMTRRPLPDGRGRMWTFSIMDQNAL 126
116 KELLEKISRDRDEAIQAKILYSSCENNEKAIKADKPLHLIRSPRWPVLESNIG 175
127 KHLLENT-TFMSSEAEKQRFILSLCQVRIEELGAPLRDL-----EKIG 174
176 P---EGWSEKRFSLQTLATFRCQYSNVFIRLYVSPDDKASNEHILKLDQATLSAVR 232
175 GWNITGPDQDNF--MEVLKAVAGTYRATPEFYIYISADSKSSNSVIGVQDGLFLPSR 232
233 EDYDNRSEAKSYDALKFVNDTAVILGANSSSLAEDMSVLELEKIMIPH-ENR 231
233 DYIL-NRTANEKTLTAYIDYMEIGMLLGRPISTRBOQVLELEQLANITVPOQER 291
292 TSEAMNKNMISELSAMIPOPMLGYTKYIDTLYPHLNDISPSNVVRVPOQFDLP 351
292 DEEKIYHMSISELQALAPSMWLEFLSPILSP-----LELSDSEVVVVYGMVDYIQVS 345
352 RIIGSEKRTIANTLVWRMYSRIPNISRRPQRMLEFSVIGQT-TTLIPQDKCVNFI 410
346 ELIRTEPSILNNLNLVQKTTSSIDRRFSAQEBLTLTYGKKSCVPRWQTCISMT 405
411 ESALPYVVGKAFVYVFOEDKEMMEELVEGVWAFIDMLEKENEMWDAITKREKAR 470
406 DDALGFLGSLFYKATDROSKELAEEMISEIRAFEBAL-GQVYMDKETRQAAEKAD 464
471 AVLAKVGPPEFIMNDTVNEDLKAIKFSEADYFQNVLTQTKYLAQSDFFWLRAVPTETW 530
465 AIYDMIGFPFIEPKELDVIYDGEISEDSFFQNMMLNLYFSAKWADQLRKPSPRDQW 524
531 FTNPTVNAFASATNOIIRPAGELQKPFMGTEYPRSLSYGAIQVTVGHEFTHGPDNG 590
525 SMPTQTNATYLLPTKNEIVFPAGILQAPFY-ARHHPALMFGGIGVVMGHELTAAEDQ 583
591 RKIDKGNLDPWMTSESEKPEKTKMKNQSYNYWKAGLVNKGRTIGENIADNGGL 650
584 REYDKENLFPWQNEISLAFRNHTACMEEQYNY--QVNGEELNGQITGENITNGGL 641
651 REAFRAYKXVINDROGLEPILPGITFTNNO-FFLSYAHVRGNSYRPEARQVQIGAH 710
642 KAAVNAIKAML--RKHG-EEQQLPAVGLTNHOLFVGFPAVWQSVVTPRESSHEGLVTDH 698
711 SPOFRVNGAISNSEEFQKAFNCPNPSTNARGMDSCLW 749
699 SPAFRVLTGLTNSRDLFRHFGCPVGSFPMNPG-QLCEVM 736

APPLICANT: Eaton, Dan
APPLICANT: Ferreira, Napoleon
APPLICANT: Filvarcoff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Iyar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tunes, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C7
CURRENT APPLICATION NUMBER: US/09/978,189
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
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PRIOR APPLICATION NUMBER: 60/066364
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PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920

RESULT 13

US-09-978-189-526
Sequence 526, Application US/09978189
Publication No. US20030004102A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc

;; PRIOR FILING DATE: 1998-03-30
;; PRIOR APPLICATION NUMBER: 60/079923
;; PRIOR FILING DATE: 1998-03-30
;; PRIOR APPLICATION NUMBER: 60/080105
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;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 30 9%; Score 1223; DB 11; Length 736;

Best Local Similarity 35.2%; Pctd. No. 1.6e-105; Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

QY 2 EARTGSSV--ETGKANKRGTIRAL-VFVGGTIVLGTIIF--LVSGQL-LSIQAKQGYCL 55
DB 7 ELGAGSNVGFQKGRQLGSRQLGELVLAGASILLAAALLGCLVALGVGYHRDPSHSTGL 66
QY 56 KPCETIEAAAILISKNLSDVPCNFFRFACDGGISNNPIBEDMRSGVGYFWLKHNDLKL 115
DB 67 TEACTIRVAGKILSLDRGVSPPCEDFYFGCGWIRNPLPDGSSRNNTNSLMDQOAIL 126
QY 116 KELLEKISRRRDTEALQKAKILYSSCQMEKALEKADAPLILHLHSFPRFVLESNTG 175
DB 127 KHLLENT-TNSSSEABQKQGRFYLSCLQVERIEHGAQPLRDLI-----EKIG 174
QY 176 P---EGWSEKRSLLQTLATFFGQYSNVFIRLYYSPDDKASNEHILKLDQATLSLAVR 232
DB 175 GWNITGPMQDNNF--NEVLKAVAGITRATPFVTVISADSKSSNSNVIVDQSGFLPSR 232
QY 233 EDYLDNSTEAKSYRDLAYKFMVDTAIVLIGNSSRAHDMKSVLRLEIKIAETNIPH--ENR 291
DB 233 DYIL-KRTANEKVLTVLDTMEELGMLLGRFPSTREQMQOYVELEIQLANITVPDQQR 291
QY 292 TSEAMYNKMNISLSAMIDPQDWLGYIKYIVDTRLYPHLKDLSPSSENVVVVRVQYFKDLF 351

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; TYPE: ERT
; ORGANISM: Homo sapiens
US-09-978-608A-526
Query Match      30.9%; Score 1223; DB 11; Length 736;
Best Local Similarity 35.2%; Pred. No. 1,6e-105;
Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

Db      232 DEEKTHNMISLQALAPSMWLEFSLSP-----LELSDSPVAVYGMIDYIQVS 345
QY      352 RILGSEKRTIANYLVWRYSRIPNLSSRRFOYKMLEFSHVIQGT-TTLTLCMDKCNFI 410
Db      346 ELINRTEPSILNNTLWNLVOKTSSLDRRFESAOEKLTLVGTKKSCVPRMGTICISNT 405
QY      411 ESALPYVVGKMFVDVYFQEDKEMMEELVEGVRAFIIDMLEKENEMMDAGTKAKAEKAR 470
Db      406 DDALGFALGSLFVKATPDRQSKELAEKMLSEIRTAEEAL-GQLVWMDKTRQAAAEKAD 464
QY      471 AVLAAGVYPERFIMDTHVNEDLKAIKFEADYFGNVLTQKYLQSDPFMLAKAVPKTEW 530
Db      465 AIYMDIGFPDILFEKELDDYDGEIISDSFPQNMNLNYSKAWADOLKRPBRDQM 524
QY      531 FTFNPTVNAFYSASTNQIRFPAGELQKPFPGWTEYPSLSYGAIGYVGHFTHGDDNG 590
Db      525 SMTPTVNAAYVLPFKNEIVFPAGILQAPFY-ARNHPALNFGGIGVWGHETLHAFDDQ 583
QY      591 RKYDKNGMLDPMWSTSESEKFEKTKCMINQYSNYWKKAAGLVNKGKRTLGENIADNGL 650
Db      584 REYDEKGLRPMWQWESLAAFRNHTACMEBQYNY--QVNGERLNGRQTLGENITDNGL 641
QY      651 REAFRAYKMINDRQGLEEPLPGITFTNNQLFELSYAHVRCNSYRPAAREQVQIGAH 710
Db      642 KAAVNAAYKAWL--RKHG-BEQQLPAVGLTNHQLFFVGAQVCSVTPSSHGLVTDPH 698
QY      711 SPQFRVNGAISNSEEFQKAFNCPNSTNRKGMDSCLM 749
Db      699 SPARFRVLGTLNSRDLRHFRCVGSFVMPNPG-QLCEW 736

RESULT 14
US-09-978-608A-526
; Sequence 526, Application US/09978608A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Fliviaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottisen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630PLC22
CURRENT APPLICATION NUMBER: US/09978, 608A
CURRENT FILING DATE: 2001-10-16
NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 526
; LENGTH: 736

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; TYPE: ERT
; ORGANISM: Homo sapiens
US-09-978-608A-526
Query Match      30.9%; Score 1223; DB 11; Length 736;
Best Local Similarity 35.2%; Pred. No. 1,6e-105;
Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

Db      232 DEEKTHNMISLQALAPSMWLEFSLSP-----LELSDSPVAVYGMIDYIQVS 345
QY      352 RILGSEKRTIANYLVWRYSRIPNLSSRRFOYKMLEFSHVIQGT-TTLTLCMDKCNFI 410
Db      346 ELINRTEPSILNNTLWNLVOKTSSLDRRFESAOEKLTLVGTKKSCVPRMGTICISNT 405
QY      411 ESALPYVVGKMFVDVYFQEDKEMMEELVEGVRAFIIDMLEKENEMMDAGTKAKAEKAR 470
Db      406 DDALGFALGSLFVKATPDRQSKELAEKMLSEIRTAEEAL-GQLVWMDKTRQAAAEKAD 464
QY      471 AVLAAGVYPERFIMDTHVNEDLKAIKFEADYFGNVLTQKYLQSDPFMLAKAVPKTEW 530
Db      465 AIYMDIGFPDILFEKELDDYDGEIISDSFPQNMNLNYSKAWADOLKRPBRDQM 524
QY      591 RKYDKNGMLDPMWSTSESEKFEKTKCMINQYSNYWKKAAGLVNKGKRTLGENIADNGL 650
Db      584 REYDEKGLRPMWQWESLAAFRNHTACMEBQYNY--QVNGERLNGRQTLGENITDNGL 641
QY      651 REAFRAYKMINDRQGLEEPLPGITFTNNQLFELSYAHVRCNSYRPAAREQVQIGAH 710
Db      642 KAAVNAAYKAWL--RKHG-BEQQLPAVGLTNHQLFFVGAQVCSVTPSSHGLVTDPH 698
QY      711 SPQFRVNGAISNSEEFQKAFNCPNSTNRKGMDSCLM 749
Db      699 SPARFRVLGTLNSRDLRHFRCVGSFVMPNPG-QLCEW 736

RESULT 15
US-09-978-585A-526
; Sequence 526, Application US/09978585A
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Fliviaroff, Ellen

```

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APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C15
CURRENT APPLICATION NUMBER: US/09/978,585A
CURRENT FILING DATE: 2001-10-16
NUMBER OF SEQ ID NOS: 624
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 526
LENGTH: 736
TYPE: PRT
ORGANISM: Homo sapiens
US-09-978-585A-526

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```

Query Match      30.9%; Score 1223; DB 11; Length 736;
Best Local Similarity 35.2%; Pred. No. 1.6e-105;
Matches 267; Conservative 145; Mismatches 307; Indels 40; Gaps 18;

QY 2 EAETGSSV--ETGKANRGRIAL-VFVGGTIVLGTILF--LVSQGL--LSLQAKOEYCL 55
DB 7 ELGAGSNVGFQKTRQLGSRTOLELVLAGASILLALLGCLVALGVQYHRDPSHSTCI 66
QY 56 KPECTEAAAIIISKVNLSVPCDNFFRFACDGMISNNPIEDMPSGVVYMLAHNVDLK 115
DB 67 TEACIRVAGKILBSLDGVPCEDEYVSCGWTRRNPLPDGSRMNTFNSLWDONQATL 126
QY 116 KELIEKISRRDTEALQAKIIVSSCMNEKALEKADAKPLHLIRSPFRWFLBSNIG 175
DB 127 KHLIENT--TENSSEBAQKTOFYLSTQVERIEBLGAQPLRDLI-----EKIG 174
QY 176 P---EGVWSERKPSLQTLATFRGQYNSVFIRLYVSPDKASNEHILKIDQATLSLAVR 232
DB 175 GWNITGPMDDNF--NEVLAVAGTYRATPFTVYISADKSSNSNVICVDOSGLPLPSR 232
QY 233 EDYLDNSTEAKSYDALYKEMVDYAVLVIGANSRAEHDKSVRLIEIKIAETIWIPIH--ENR 291
DB 233 DYLL--NRTANEKYLTAIDYMEELGMLGSRPTSTREQOVLELEIQLANITVPQDQR 291
QY 292 TSEAMTKKMISELISAMIPQFDWLGITIKYIDTRLYPHLKDIPSENVVVVPQYFKOLF 351
DB 292 DEEKIYKMSISELQALAPSMDELSFLSP-----LELSDSEPVVVVYGMDYLQVVS 345
QY 352 RILGSEKRTIAYLVVWRMYYSRIPNLSRFQYRMLFEFSVIGQT--TLLPQMDKCVNFI 410
DB 346 ELINRTEPSILNNYILINLVQKTTSSIDRFESAQEKLETLVGTGKSCVPRKQICISNT 405
QY 411 ESALPVYVGMFVDVYFQEBKEMEBLYEGVMAFTIMLEKENEMMDAGTYRKAKEKAR 470
DB 406 DDALGFLGSLFVKAFTRDSKSEIAQMSIETAFEEAL--GQLVWMDKTRQAAKEKAD 464
QY 471 AVLAKYGEFFINMDTHVNEDLKAIKFSADYRGVNLQTRKYLAQSDFFMLKKAIVKTEW 530
DB 465 AIVDMIGFPDFILEPKELDVYDGYEISDSFQNTLNLNPSAKYMAQDLKRPSPROW 524

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QY 531 FVNPTVNAFYASATNQIRPAGELQKPEFMGTBYPRSLSYGAIGYVGHETFGPDNG 590
DB 525 SMTPQTVNAIYLPKNEIVFPAGILQAPFY--ANHEPKALNFGIGVWGHETLHAFFDDG 583
QY 591 KRTDKNGNLDPMWSTSEBEKFEKTKCMINQYSNYYKKAGLVXGKRTLGENIADNGSL 650
DB 584 REYDKENLRPMWQNSLAFRNHTACMEBOYNY--GVNGERLNGRQTLGENTIDNGSL 641
QY 651 REAFRAYRKINDRQGLEPILPGITFTNNQLFPLSYAHVRCNSYRPPAAREVOIGAH 710
DB 642 KAIYNAIYKML--RKHG--BEQQLPAVGLTNHQLFPVGFQVWCVSRTPESSHEGLVTPDH 698
QY 711 SPQFRVNGAISNSEFOKAFNCPNSTWNRGMDSCRLM 749
DB 699 SPARFRVLGTLSNRDFLHFGCVPYGSPPNPG--QLCEYVW 736

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Search completed: February 20, 2004, 14:34:10
Job time : 62.7451 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 20, 2004, 13:32:18 ; Search time 0.627451 Seconds
(without alignments)
1078.927 Million cell updates/sec

Title: US-09-913-955A-4

Perfect score: 72

Sequence: 1 VLTVIAQQTSGILS 16

Scoring table:

BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 4231058 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

- 1: /cgn2_6/ptodata/1/1aa/5A.COMB.pep:*
- 2: /cgn2_6/ptodata/1/1aa/5B.COMB.pep:*
- 3: /cgn2_6/ptodata/1/1aa/6A.COMB.pep:*
- 4: /cgn2_6/ptodata/1/1aa/6B.COMB.pep:*
- 5: /cgn2_6/ptodata/1/1aa/PTCUS.COMB.pep:*
- 6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	41	56.9	283	4	US-09-198-452A-424
2	37	51.4	206	4	US-09-107-532A-3801
3	37	51.4	3433	4	US-09-091-501B-10
4	36	50.0	361	4	US-09-252-991A-30426
5	36	50.0	454	4	US-09-252-991A-30164
6	35	48.6	132	4	US-09-198-452A-573
7	35	48.6	625	4	US-09-252-991A-26336
8	35	48.6	705	4	US-09-328-352-4457
9	35	48.6	803	4	US-09-252-991A-19492
10	34.5	47.5	418	4	US-09-724-623-106
11	34	47.2	1034	4	US-09-252-991A-28921
12	34	47.2	1627	4	US-09-328-352-6604
13	33	45.8	438	4	US-09-252-991A-18710
14	33	45.8	453	4	US-09-252-991A-17641
15	33	45.8	459	2	US-08-870-518-4
16	33	45.8	476	2	US-08-624-635-5
17	33	45.8	749	4	US-09-252-991A-16877
18	33	45.8	2004	1	US-08-375-709-15
19	33	45.8	2004	1	US-08-752-929-15
20	33	45.8	2004	3	US-09-090-793-9
21	33	45.8	2004	3	US-09-231-899-9
22	32.5	45.1	894	3	US-08-362-525-22
23	32.5	45.1	894	3	US-08-971-682-15
24	32.5	45.1	1537	1	US-08-325-267A-2
25	32	44.4	132	6	5164490-7
26	32	44.4	195	6	US-09-252-991A-21069
27	32	44.4	197	4	US-09-602-877A-99

28	32	44.4	206	4	US-09-996-243-403	Sequence 403, App
29	32	44.4	206	6	5164490-1	Patent No. 5164490
30	32	44.4	245	4	US-09-252-991A-28029	Sequence 28029, A
31	32	44.4	255	2	US-08-685-992-16	Sequence 16, Appl
32	32	44.4	255	2	US-09-144-925-16	Sequence 16, Appl
33	32	44.4	271	4	US-09-328-352-5629	Sequence 5629, App
34	32	44.4	288	4	US-09-252-991A-17419	Sequence 17419, A
35	32	44.4	292	4	US-08-134-001C-3301	Sequence 3301, App
36	32	44.4	307	3	US-08-812-586-2	Sequence 2, Appl
37	32	44.4	307	4	US-09-535-832A-2	Sequence 2, Appl
38	32	44.4	316	4	US-09-328-352-6805	Sequence 6805, App
39	32	44.4	316	4	US-08-976-063E-6	Sequence 6, Appl
40	32	44.4	408	4	US-09-107-532A-6253	Sequence 6253, App
41	32	44.4	418	4	US-09-252-991A-20913	Sequence 20913, A
42	32	44.4	420	2	US-08-466-103A-2	Sequence 2, Appl
43	32	44.4	438	4	US-09-252-991A-28398	Sequence 28398, A
44	32	44.4	455	4	US-09-328-352-5839	Sequence 5839, App
45	32	44.4	460	4	US-09-252-991A-28610	Sequence 28610, A

ALIGNMENTS

RESULT 1
US-09-198-452A-424
Sequence 424, Application US/09198452A
Patent No. 6559294
GENERAL INFORMATION:
APPLICANT: Griffiths, R.
TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention
FILE REFERENCE: 9710-003-999
CURRENT APPLICATION NUMBER: US/09/198,452A
CURRENT FILING DATE: 1998-11-24
NUMBER OF SEQ ID NOS: 6849
SEQ ID NO 424
LENGTH: 283
TYPE: PRT
ORGANISM: Chlamydia pneumoniae
US-09-198-452A-424

Query Match 56.9%; Score 41; DB 4; Length 283;
Best Local Similarity 53.8%; Pred. No. 6.7;
Matches 7; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 VLTVIAQQTSG 13
Db 162 LSTVQMTSG 174

RESULT 2
US-09-107-532A-3801
Sequence 3801, Application US/09107532A
Patent No. 6583275
GENERAL INFORMATION:
APPLICANT: Lynn A Doucette-Stamm and David Bush
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROCOCCUS FACIUM FOR DIAGNOSTICS AND THERAPEUTICS
NUMBER OF SEQUENCES: 7310
CORRESPONDENCE ADDRESS:
ADDRESSEE: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Waltham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354
COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: PC
OPERATING SYSTEM: <Unknown>
SOFTWARE: ASCII
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/107,532A
FILING DATE: 30-Jun-1998
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 60/085,598
FILING DATE: 14 May 1998
APPLICATION NUMBER: 60/051571
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Arianello, Pamela Denek
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 3801:
SEQUENCE CHARACTERISTICS:
LENGTH: 206 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Enterococcus faecium
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...206
SEQUENCE DESCRIPTION: SEQ ID NO: 3801:
US-09-107-532A-3801

Query Match 51.4%; Score 37; DB 4; Length 206;
Best Local Similarity 61.5%; Pred. No. 25;
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 2 LVIVIAOQTSGQL 14
DB 122 VLVVDSYDTDGL 134

RESULT 3
US-09-091-501B-10
Sequence 10; Application US/09091501B
Patent No. 6518413
GENERAL INFORMATION:
APPLICANT: Tinsley, Jonathan M
APPLICANT: Davies, Kay E
TITLE OF INVENTION: Utrrophin gene expression
FILE REFERENCE: 620-42
CURRENT APPLICATION NUMBER: US/09/091,501B
CURRENT FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: PCT/GB96/03156
PRIOR FILING DATE: 1996-12-19
PRIOR APPLICATION NUMBER: GB 9525962.8
PRIOR FILING DATE: 1995-12-19
PRIOR APPLICATION NUMBER: GB 9615797.9
PRIOR FILING DATE: 1996-07-26
PRIOR APPLICATION NUMBER: GB 9622174.2
PRIOR FILING DATE: 1996-10-24
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
LENGTH: 3433
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: misc feature
LOCATION: (239) ... (250)
OTHER INFORMATION: Description of Artificial Sequence: Full length
OTHER INFORMATION: utrophin construct; Xaa = unknown
US-09-091-501B-10

Query Match 51.4%; Score 37; DB 4; Length 3433;
Best Local Similarity 53.8%; Pred. No. 7.8e+02;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 3 TVIAOQTSGQL 15
DB 1565 TELVQKSTISBGL 1577

RESULT 4
US-09-252-991A-30426
Sequence 30426; Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 30426
LENGTH: 361
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30426

Query Match 50.0%; Score 36; DB 4; Length 361;
Best Local Similarity 53.3%; Pred. No. 77;
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY 1 VLVVIAOQTSGQL 15
DB 125 VLVVIAOQTSGQL 139

RESULT 5
US-09-252-991A-30164
Sequence 30164; Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 30164
LENGTH: 454
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30164

Query Match 50.0%; Score 36; DB 4; Length 454;
Best Local Similarity 58.3%; Pred. No. 1e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 5 TVIAOQTSGQLS 16
DB 320 VAAQAAAGGLS 331

RESULT 6
US-09-198-452A-573
Sequence 573; Application US/09198452A
Patent No. 6559294
GENERAL INFORMATION:

```

: APPLICANT: Griffiths, R.
: TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
: TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
: TITLE OF INVENTION: and treatment of infection
: FILE REFERENCE: 9710-003-999
: CURRENT APPLICATION NUMBER: US/09/198,452A
: CURRENT FILING DATE: 1998-11-24
: NUMBER OF SEQ ID NOS: 6849
: SEQ ID NO 573
: LENGTH: 132
: TYPE: PRT
: ORGANISM: Chlamydia pneumoniae
: US-09-198-452A-573

```

Query Match	48.6%	Score 35;	DB 4;	Length 132;
Best Local Similarity	53.3%;	Pred. No. 35;		
Matches	8;	Conservative	3;	Mismatches 4;
				Indels 0;
				Gaps 0;

```
QY      2 LTVIAQQTSSQGLLS 16
      :|||: :|||
Db     116 MTVKAEQFEKGLLS 130
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RESULT 7
 US-09-252-991A-26336
 ; Sequence 26336, Application US/09252991A
 ; Patent No. 6551795
 ; GENERAL INFORMATION:
 ; APPLICANT: Marc J. Rubenfield et al.
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
 ; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
 ; FILE REFERENCE: 107196.136
 ; CURRENT APPLICATION NUMBER: US/09/252,991A
 ; CURRENT FILING DATE: 1999-02-18
 ; PRIOR APPLICATION NUMBER: US 60/074,788
 ; PRIOR FILING DATE: 1998-02-18
 ; PRIOR APPLICATION NUMBER: US 60/094,190
 ; PRIOR FILING DATE: 1998-07-27
 ; NUMBER OF SEQ ID NOS: 33142
 ; SEQ ID NO 26336
 ; LENGTH: 625
 ; TYPE: PR1
 ; ORGANISM: *Pseudomonas aeruginosa*
 ; US-09-252-991A-26336

Query Match	48.6%	Score 35;	DB 4;	Length 625;
Best Local Similarity	50.0%;	Pred. No. 2.3e+02;		
Matches	8;	Conservative	3;	Mismatches 5;
				Indels 0;
				Gaps 0;

```
QY      1 VLTVIAQQTTSQGLS 16
      :||| | | :| :
Db      365 MLTTF AQQTDAQFYLN 380
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```

RESULT 8
US-09-328-352-4457
; Sequence 4457, Application US/09328352
; Patent No. 6562358
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GPC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 4457
; LENGTH: 705
; TYPE: PR1
; ORGANISM: Acinetobacter baumannii
; US-09-328-352-4457

```

Query Match 48.6%; Score 35; DB 4; Length 705;

```

Qy      1 VLVIAQQTSGGLS 16
      :|:|:|:|:|
Db      435 MLVTIAQEVGSSITLS 450

Best Local Similarity 43.8%; Pred. No. 2.7e+02;
Matches 7; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

```

```
QY      1 VLTVIAQQTTSQGLLS 16
          :||:|:|:|:|:|:|:|
Db      .. 435 MLTVLAQEVGESSILS 450
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```

RESULT 9
US-09-252-991A-19492
; Sequence 19492, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIORITY FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 19492
; LENGTH: 803
; TYPE: PRY
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-19492

```

Query Match	48.6%	Score 35	DB 4	Length 803
Best Local Similarity	46.2%	Pred. No.	3.1e+02	
Matches	6	Conservative	5	Mismatches 2
				Indels 0
				Gaps 0

QY 3 TVIAQQTTSGLL 15
 |::|||:::|||:
Db 352 TLVAQRRSQQGLV 364

```

US-09-724-623-106
RESULT 10
US-09-724-623-106
; Sequence 106, Application US/09724623
; Patent No. 6476209
GENERAL INFORMATION:
APPLICANT: Glenn, Matthew
APPLICANT: Lubbers, Mark W
TITLE OF INVENTION: Dexeter, James
TITLE OF INVENTION: Polynucleotides, materials incorporating
FILE REFERENCE: chem. and methods for using them.
FILE REFERENCE: 1048U1
CURRENT APPLICATION NUMBER: US/09/724,623
CURRENT FILING DATE: 2000-11-28
NUMBER OF SEQ ID NOS: 124
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 106
LENGTH: 418
TYPE: PRT
ORGANISM: Lactobacillus rhamnosus
US-09-724-623-106
```

Query Match	47.9%	Score 34.5	DB 4	Length 4.8
Best Local Similarity	52.9%	Pred. No. 1.8e+02		
Matches	9	Conservative	4	Mismatches 1
				Indels 3
				Gaps 1

QY 3 TVIAQQTTSQ---GLLS 16
||:||||:||||:
Db 20 TVLSQLTTAQKNAGLLA 36

RESULT 11
US-09-252-991A-28921
; Sequence 28921, Application US/09252991A
; Patent No. 6551795


```

; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 28921
; LENGTH: 1034
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-28921

Query Match      47.2%; Score 34; DB 4; Length 1034;
Best Local Similarity 54.5%; Pred. No. 6.5e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY      5  LVAQQTSGQL 15
DB      816 LADQSTDCGL 826

RESULT 12
US-09-328-352-6604
; Sequence 6604, Application US/09328352
; Patent No. 6562958
; GENERAL INFORMATION:
; APPLICANT: Gary L. Breton et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER
; TITLE OF INVENTION: BAUMANNII FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC99-03PA
; CURRENT APPLICATION NUMBER: US/09/328,352
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 8252
; SEQ ID NO 6604
; LENGTH: 1627
; TYPE: PRT
; ORGANISM: Acinetobacter baumannii
; US-09-328-352-6604

Query Match      47.2%; Score 34; DB 4; Length 1627;
Best Local Similarity 50.0%; Pred. No. 1.1e+03;
Matches 8; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY      1  LVTVAQQTSGQLS 16
DB      537 LLAHLALQLTPQGLVS 552

RESULT 13
US-09-252-991A-18710
; Sequence 18710, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; PRIOR FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18710
; LENGTH: 438
; TYPE: PRT
```

```

; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-18710

Query Match      45.8%; Score 33; DB 4; Length 438;
Best Local Similarity 46.7%; Pred. No. 3.5e+02;
Matches 7; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY      2  LTVVAQQTSGQLS 16
DB      112 VTAVAPTQMGKLS 126

RESULT 14
US-09-252-991A-17641
; Sequence 17641, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 17641
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-17641

Query Match      45.8%; Score 33; DB 4; Length 453;
Best Local Similarity 46.2%; Pred. No. 3.7e+02;
Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

QY      1  LVTVAQQTSG 13
DB      117 VAVVAQVAAQG 129

RESULT 15
US-08-870-518-4
; Sequence 4, Application US/08870518
; Patent No. 5925565
; GENERAL INFORMATION:
; APPLICANT: Davis, Roger J.
; APPLICANT: Galcheva-gargova, Zoya
; TITLE OF INVENTION: NON-ACTIVATED RECEPTOR COMPLEX
; TITLE OF INVENTION: PROTEINS AND USES THEREOF
; NUMBER OF SEQUENCES: 35
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 225 Franklin Street
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02110-2804
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows95
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/870,518
; FILING DATE: 06-JUN-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/019,219
; FILING DATE: 06-JUN-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Fasse, Peter J.
```

REGISTRATION NUMBER: 32,983
REFERENCE/DOCKET NUMBER: 04020/102001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 459 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-870-518-4

Query Match 45.8%; Score 33; DB 2; Length 459;
Best Local Similarity 58.3%; Pred. No. 3.7e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
QY 5 INQOTTSGQLS 16
: |||||
Db 125 LGQLTTVEGLS 136

Search completed: February 20, 2004, 14:26:14
Job time : 0.627451 secs

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: February 20, 2004, 14:19:33 ; Search time 1.2549 Seconds

(without alignments)
2669.624 Million cell updates/sec

Title: US-09-913-955A-4

Perfect score: 72

Sequence: 1 VLTVIAQQTTSQGLIS 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 801455 seqs, 209382283 residues

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Published Applications AA:*

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- 10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
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- 16: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
- 17: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
- 18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	41	56.9	283	12	US-10-289-762-424
2	38	52.8	277	12	US-10-374-780A-1528
3	38	52.8	1163	12	US-10-452-024-107
4	38	52.8	1193	12	US-10-452-024-92
5	38	52.8	1193	12	US-10-452-024-93
6	37	51.4	551	12	US-10-369-493-3535
7	36	50.0	394	12	US-10-369-493-5606
8	36	50.0	453	12	US-10-156-761-11650
9	36	50.0	602	12	US-10-369-493-3150
10	35	50.0	785	12	US-10-369-493-1370
11	35	48.6	77	12	US-10-029-386-27413
12	35	48.6	118	12	US-10-369-493-21960
13	35	48.6	132	12	US-10-289-762-573
14	35	48.6	236	10	US-09-881-752A-340
15	35	48.6	254	9	US-09-815-242-4880

16	35	48.6	258	9	US-09-815-242-10486	Sequence 10486, A
17	35	48.6	299	12	US-10-275-933-5	Sequence 5, Appl1
18	35	48.6	269	14	US-10-275-933-6	Sequence 6, Appl1
19	35	48.6	626	14	US-10-047-539-2	Sequence 2, Appl1
20	35	48.6	1159	12	US-10-452-024-108	Sequence 108, App
21	35	48.6	1193	12	US-10-452-024-103	Sequence 103, Appl
22	35	48.6	1193	12	US-10-452-024-104	Sequence 104, App
23	34.5	47.9	418	12	US-10-288-930-106	Sequence 106, Appl
24	34	47.2	121	15	US-10-310-002-3	Sequence 3, Appl1
25	34	47.2	334	10	US-09-738-626-1842	Sequence 5842, Ap
26	34	47.2	390	12	US-09-764-875-675	Sequence 675, App
27	34	47.2	504	12	US-10-259-194A-174	Sequence 174, App
28	34	47.2	508	12	US-10-156-761-12564	Sequence 12564, A
29	34	47.2	531	12	US-10-369-493-10137	Sequence 10137, A
30	34	47.2	549	12	US-10-369-493-5478	Sequence 5478, Ap
31	34	47.2	686	12	US-10-310-154-434	Sequence 434, App
32	34	47.2	1008	15	US-10-310-002-11	Sequence 11, Appl
33	34	47.2	1054	15	US-10-310-002-47	Sequence 47, Appl
34	34	47.2	1114	12	US-10-320-797-3340	Sequence 3340, Ap
35	34	47.2	1161	12	US-10-452-024-105	Sequence 105, App
36	34	47.2	1161	12	US-10-452-024-106	Sequence 106, App
37	34	47.2	1193	12	US-10-452-024-94	Sequence 94, Appl
38	33.5	46.5	793	15	US-10-156-761-10563	Sequence 10563, A
39	33	45.8	81	10	US-09-925-300-1641	Sequence 1641, Ap
40	33	45.8	102	15	US-10-156-761-12525	Sequence 12525, A
41	33	45.8	254	12	US-10-369-493-16310	Sequence 16310, A
42	33	45.8	259	12	US-10-369-493-15574	Sequence 15574, A
43	33	45.8	259	12	US-10-369-493-15597	Sequence 15597, A
44	33	45.8	265	12	US-10-289-757-98	Sequence 98, Appl
45	33	45.8	307	12	US-10-369-493-19992	Sequence 19992, A

ALIGNMENTS

RESULT 1
US-10-289-762-424
; Sequence 424, Application US/10289762
; Publication No. US20040006218A1
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevent
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/10/289,762
; CURRENT FILING DATE: 2003-03-27
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 424
; LENGTH: 283
; TYPE: PRT
; ORGANISM: Chlamydia pneumoniae
US-10-289-762-424

Query Match 56.9%; Score 41; DB 12; Length 283;
Best Local Similarity 53.8%; Pred. No. 26;
Matches 7; Conservative 5; Mismatches 1; Indels 0; Gaps 0;

QY 1 VLTVIAQQTTSQGL 13
Db 162 LLSVTSQMTTSQGL 174
RESULT 2
US-10-374-780A-1528
; Sequence 1528, Application US/10374780A
; Publication No. US20040019927A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, Bradley K
; APPLICANT: Kiechmann, Jose Luis
; APPLICANT: Jiang, Cai-Zhong
; APPLICANT: Heard, Jacqueline R
; APPLICANT: Haake, Volker

APPLICANT: Creelman, Robert A
APPLICANT: Ratcliffe, Oliver
APPLICANT: Adam, Luc J
APPLICANT: Reuber, T. Lynne
APPLICANT: Keddle, James E
APPLICANT: Brown, Pierre E
APPLICANT: Pilgrim, Marsha L
APPLICANT: Dubeil III, Arnold T
APPLICANT: Pineda, Omaira
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES IN PLANTS
FILE REFERENCE: MB1-0047 CIP
CURRENT APPLICATION NUMBER: US/10/374,780A
CURRENT FILING DATE: 2003-02-25
PRIOR APPLICATION NUMBER: 09/837,944
PRIOR FILING DATE: 2001-04-18
PRIOR APPLICATION NUMBER: 60/310,847
PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 09/934,455
PRIOR FILING DATE: 2001-08-22
PRIOR APPLICATION NUMBER: 60/336,049
PRIOR FILING DATE: 2001-11-19
PRIOR APPLICATION NUMBER: 60/338,692
PRIOR FILING DATE: 2001-12-11
PRIOR APPLICATION NUMBER: 10/171,468
PRIOR FILING DATE: 2002-06-14
PRIOR APPLICATION NUMBER: 10/225,066
PRIOR FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: 10/225,067
PRIOR FILING DATE: 2002-08-09
PRIOR APPLICATION NUMBER: 10/225,068
PRIOR FILING DATE: 2002-08-09
NUMBER OF SEQ ID NOS: 2906
SOFTWARE: PatentIn version 3.2
SEQ ID NO 1528
LENGTH: 277
TYPE: PRT
ORGANISM: nicotiana tabacum
FEATURE:
OTHER INFORMATION: Orthologous to G1266
US-10-374-780A-1528
Query Match 52.8%; Score 38; DB 12; Length 277;
Best Local Similarity 56.2%; Pred. No. 87;
Matches 9; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
QY 1 LTVIAOQTSGQLS 16
DB 49 LTVIAOQTSGQLS 64
RESULT 3
US-10-452-024-107
Sequence 107, Application US/10452024
Publication No. US20040013687A1
GENERAL INFORMATION:
APPLICANT: Simpson, Lance
APPLICANT: Park, Jung-Beak
APPLICANT: Maksymowich, Andrew
TITLE OF INVENTION: Compositions and Methods For Transepithelial Molecular Transport
FILE REFERENCE: 9855-96U1
CURRENT APPLICATION NUMBER: US/10/452,024
CURRENT FILING DATE: 2003-06-02
PRIOR APPLICATION NUMBER: 60/384,949
PRIOR FILING DATE: 2002-05-31
NUMBER OF SEQ ID NOS: 188
SOFTWARE: PatentIn version 3.2
SEQ ID NO 107
LENGTH: 1163
TYPE: PRT
ORGANISM: Clostridium botulinum
US-10-452-024-107

Query Match 52.8%; Score 38; DB 12; Length 1163;
Best Local Similarity 53.3%; Pred. No. 4.6e+02;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
QY 2 LTVIAOQTSGQLS 16
DB 983 LTVIAOQTSGQLS 997
RESULT 4
US-10-452-024-92
Sequence 92, Application US/10452024
Publication No. US20040013687A1
GENERAL INFORMATION:
APPLICANT: Simpson, Lance
APPLICANT: Park, Jung-Beak
APPLICANT: Maksymowich, Andrew
TITLE OF INVENTION: Compositions and Methods For Transepithelial Molecular Transport
FILE REFERENCE: 9855-96U1
CURRENT APPLICATION NUMBER: US/10/452,024
CURRENT FILING DATE: 2003-06-02
PRIOR APPLICATION NUMBER: 60/384,949
PRIOR FILING DATE: 2002-05-31
NUMBER OF SEQ ID NOS: 188
SOFTWARE: PatentIn version 3.2
SEQ ID NO 92
LENGTH: 1193
TYPE: PRT
ORGANISM: Clostridium botulinum
US-10-452-024-92
Query Match 52.8%; Score 38; DB 12; Length 1193;
Best Local Similarity 53.3%; Pred. No. 4.8e+02;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
QY 2 LTVIAOQTSGQLS 16
DB 1017 LTVIAOQTSGQLS 1031
RESULT 5
US-10-452-024-93
Sequence 93, Application US/10452024
Publication No. US20040013687A1
GENERAL INFORMATION:
APPLICANT: Simpson, Lance
APPLICANT: Park, Jung-Beak
APPLICANT: Maksymowich, Andrew
TITLE OF INVENTION: Compositions and Methods For Transepithelial Molecular Transport
FILE REFERENCE: 9855-96U1
CURRENT APPLICATION NUMBER: US/10/452,024
CURRENT FILING DATE: 2003-06-02
PRIOR APPLICATION NUMBER: 60/384,949
PRIOR FILING DATE: 2002-05-31
NUMBER OF SEQ ID NOS: 188
SOFTWARE: PatentIn version 3.2
SEQ ID NO 93
LENGTH: 1193
TYPE: PRT
ORGANISM: Clostridium botulinum
US-10-452-024-93
Query Match 52.8%; Score 38; DB 12; Length 1193;
Best Local Similarity 53.3%; Pred. No. 4.6e+02;
Matches 8; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
QY 2 LTVIAOQTSGQLS 16
DB 1017 LTVIAOQTSGQLS 1031
RESULT 6
US-10-369-493-3535

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; Sequence 3535, Application us/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3535
; LENGTH: 551
; TYPE: PRT
; ORGANISM: Neurospora crassa
; FEATURES:
; NAME/KEY: unsure
; LOCATION: (1)..(551)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-3535
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Query Match 51.4%; Score 37; DB 12; Length 551;
Best Local Similarity 53.8%; Pred. No. 2.9e+02;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
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```
QY 1 VTVAQQTTSQG 13
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```
Db 468 VLVDVAERTTSEG 480
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RESULT 7
US-10-369-493-5606
; Sequence 5606, Application US/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 5606
; LENGTH: 394
; TYPE: PRT
; ORGANISM: Caenorhabditis elegans
US-10-369-493-5606
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Query Match 50.0%; Score 36; DB 12; Length 394;
Best Local Similarity 54.5%; Pred. No. 3e+02;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
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QY 3 TVIAQQTTSQG 13
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Db 84 TVVAQEAISBG 94
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RESULT 8
US-10-156-761-11650
; Sequence 11650, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
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; APPLICANT: OKURA, SATOSHI
; APPLICANT: IKEDA, HARUO
; APPLICANT: ISHIKAWA, JUN
; APPLICANT: HORIKAWA, HIROSHI
; APPLICANT: SHIBA, TADAYOSHI
; APPLICANT: SAKAKI, YOSHIYUKI
; APPLICANT: HATTORI, MASAHIRA
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-262
; CURRENT APPLICATION NUMBER: US/10/156,761
; PRIOR FILING DATE: 2002-05-29
; PRIOR APPLICATION NUMBER: JP 2001-204089
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: JP 2001-272697
; PRIOR FILING DATE: 2001-08-02
; NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 11650
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Streptomyces avermitilis
US-10-156-761-11650
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Query Match 50.0%; Score 36; DB 15; Length 453;
Best Local Similarity 40.0%; Pred. No. 3.6e+02;
Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;
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QY 1 VTVAQQTTSQGL 15
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Db 47 ITALVROQTGRGFL 61
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RESULT 9
US-10-369-493-3150
; Sequence 3150, Application US/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xianfeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; PRIOR FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 3150
; LENGTH: 602
; TYPE: PRT
; ORGANISM: Neurospora crassa
; FEATURES:
; NAME/KEY: unsure
; LOCATION: (1)..(602)
; OTHER INFORMATION: unsure at all Xaa locations
US-10-369-493-3150
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Query Match 50.0%; Score 36; DB 12; Length 602;
Best Local Similarity 58.3%; Pred. No. 5e+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;
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```
QY 3 TVIAQQTTSQGL 14
```

```
Db 569 TVVLEAATVQGL 580
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```
RESULT 10
US-10-369-493-1370
; Sequence 1370, Application US/10369493
; Publication No. US2003023675A1
; GENERAL INFORMATION:
```

```
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO: 1370
LENGTH: 785
TYPE: PRT
ORGANISM: Saccharomyces cerevisiae
US-10-369-493-1370
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Query Match      50.0%; Score 36; DB 12; Length 785;
Best Local Similarity 46.7%; Pred. No. 6.8e+02;
Matches 7; Conservative 5; Mismatches 3; Indels 0; Gaps 0;
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QY      2 LTVIAOQTTSQGLS 16
DB      323 LHVIGETSKSGILN 337
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RESULT 11
US-10-029-386-27413
Sequence 27413, Application US/10029386
Publication No. US20030194704A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR G
FILE REFERENCE: AEOMICA-X-2
CURRENT APPLICATION NUMBER: US/10/029,386
CURRENT FILING DATE: 2001-12-20
NUMBER OF SEQ ID NOS: 34288
SOFTWARE: Anthrax Sequence Listing Engine vers. 1.1
SEQ ID NO 27413
LENGTH: 77
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO CHR22,105,0
OTHER INFORMATION: EXPRESSED IN HELIX, SIGNAL = 1.1
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.9
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.8
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.9
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.1
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2
OTHER INFORMATION: SWISSPROT HIT: Q9VHB6, EVALU8 9.00e+00
US-10-029-386-27413
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Query Match      48.6%; Score 35; DB 12; Length 77;
Best Local Similarity 40.0%; Pred. No. 69;
Matches 6; Conservative 5; Mismatches 4; Indels 0; Gaps 0;
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```
QY      1 LTVIAOQTTSQGLS 15
DB      59 LHLIVDOQATKEGIL 73
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```
RESULT 12
US-10-369-493-21960
Sequence 21960, Application US/10369493
Publication No. US2003033675A1
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```
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
SEQ ID NO 21960
LENGTH: 118
TYPE: PRT
ORGANISM: Saccharomyces cerevisiae
US-10-369-493-21960
```

```
Query Match      48.6%; Score 35; DB 12; Length 118;
Best Local Similarity 46.7%; Pred. No. 1.1e+02;
Matches 7; Conservative 4; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 LTVIAOQTTSQGLS 15
DB      7 LIAVIADEDTTIGLL 21
```

```
RESULT 13
US-10-289-762-573
Sequence 573, Application US/10289762
Publication No. US20040006218A1
GENERAL INFORMATION:
APPLICANT: Griffls, R.
TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, preve
FILE REFERENCE: 9710-003-999
CURRENT APPLICATION NUMBER: US/10/289,762
CURRENT FILING DATE: 2003-03-27
NUMBER OF SEQ ID NOS: 6849
SEQ ID NO 573
LENGTH: 132
TYPE: PRT
ORGANISM: Chlamydia pneumoniae
US-10-289-762-573
```

```
Query Match      48.6%; Score 35; DB 12; Length 132;
Best Local Similarity 53.3%; Pred. No. 1.3e+02;
Matches 8; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      2 LTVIAOQTTSQGLS 16
DB      116 MTVAAGQEPKGLS 130
```

```
RESULT 14
US-09-881-752A-340
Sequence 340, Application US/09881752A
Patent No. US20020115078A1
GENERAL INFORMATION:
APPLICANT: Kleenhouse, Harold
APPLICANT: Al-Garawi, Amal
APPLICANT: Miller, Charles
APPLICANT: Tomb, Jean-Francois
APPLICANT: Oomen, Raymond P.
TITLE OF INVENTION: Identification of Polynucleotides
TITLE OF INVENTION: Encoding No. US20020115078A1 Helicobacter Polypeptides in the
FILE REFERENCE: 06133/041002
CURRENT APPLICATION NUMBER: US/09/881,752A
CURRENT FILING DATE: 2001-06-15
```

;; PRIOR APPLICATION NUMBER: US 08/833,457
 ;; PRIOR FILING DATE: 1997-04-01
 ;; NUMBER OF SEQ ID NOS: 370
 ;; SOFTWARE: FastSeq for Windows Version 4.0
 ;; SEQ ID NO 340
 ;; LENGTH: 236
 ;; TYPE: PRT
 ;; ORGANISM: Helicobacter pylori
 US-09-881-752A-340

Query Match 48.6%; Score 35; DB 10; Length 236;
 Best Local Similarity 50.0%; Pred. No. 2.5e+02;
 Matches 8; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

CY 1 VLTVIAOQTTSQGLIS 16
 :|||:|:|:
 Db 173 ILTPVIAQNVAGLES 188

RESULT 15
 US-09-815-242-4880
 ; Sequence 4880, Application US/09815242
 ; Patent No. US2002061569A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Haselbeck, Robert
 ; APPLICANT: Ohlsen, Karl L.
 ; APPLICANT: Zyskind, Judith W.
 ; APPLICANT: Wall, Daniel
 ; APPLICANT: Trawick, John D.
 ; APPLICANT: Carr, Grant J.
 ; APPLICANT: Yamamoto, Robert T.
 ; APPLICANT: Xu, H. Howard
 ; TITLE OF INVENTION: Identification of Essential Genes in
 ; FILE REFERENCE: ELITRA 011A
 ; CURRENT APPLICATION NUMBER: US/09/815,242
 ; CURRENT FILING DATE: 2001-03-21
 ; PRIOR APPLICATION NUMBER: 60/191,078
 ; PRIOR FILING DATE: 2000-03-21
 ; PRIOR APPLICATION NUMBER: 60/206,848
 ; PRIOR FILING DATE: 2000-05-23
 ; PRIOR APPLICATION NUMBER: 60/207,727
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: 60/242,578
 ; PRIOR FILING DATE: 2000-10-23
 ; PRIOR APPLICATION NUMBER: 60/253,625
 ; PRIOR FILING DATE: 2000-11-27
 ; PRIOR APPLICATION NUMBER: 60/257,931
 ; PRIOR FILING DATE: 2000-12-22
 ; PRIOR APPLICATION NUMBER: 60/269,308
 ; PRIOR FILING DATE: 2001-02-16
 ; NUMBER OF SEQ ID NOS: 14110
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 4880
 ; LENGTH: 254
 ; TYPE: PRT
 ; ORGANISM: Enterococcus faecalis
 US-09-815-242-4880

Query Match 48.6%; Score 35; DB 9; Length 254;
 Best Local Similarity 43.8%; Pred. No. 2.8e+02;
 Matches 7; Conservative 5; Mismatches 4; Indels 0; Gaps 0;
 CY 1 VLTVIAOQTTSQGLIS 16
 :|||:|:|:
 Db 80 VLNSLSLPTSQGILA 95

Search completed: February 20, 2004, 14:34:11
 Job time : 2.2549 secs